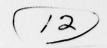
DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA AD-A058 500 F/G 5/2 PSYCHOLOGICAL TESTS. (U) **SEP 78** UNCLASSIFIED DDC/BIB-78/06 NL OF AD A058500 i 10 to Û · Nimbly 4 titudilli Addaddi 机油油油 南地址山 LELLAND HILLIAN 訓練翻





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PSYCHOLOGICAL TESTS

A DDC BIBLIOGRAPHY

DDC-TAS Cameron Station Alexandria, Va. 22314

SEPTEMBER 1978

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DEFENSE SUPPLY AGENCY
Cameron Station
Alexandria, Va. 22314

IINCLASSIFIED SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS BEFORE COMPLETING FORM REPORT DOCUMENTATION PAGE 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER PORT NUMBER DDC/BIB-78/06 AD-A058 500 THE OF REPORT & PERIOD COVERED TITLE (and Subtitle) Aug. 1944-Dec. 1977 PSYCHOLOGICAL TESTS . S. CONTRACT OR GRANT NUMBER(+) AUTHOR(+) 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 9. PERFORMING ORGANIZATION NAME AND ADDRESS Defense Documentation Center 65801S Cameron Station Alexandria, Virginia 22314 11. CONTROLLING OFFICE NAME AND ADDRESS REPORT DATE September 1978 BER OF PAGES 480 14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office) 15. SECURITY CLASS. (of this report) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 17. DISTRIBUTION STATEMENT (of the electract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES Supersedes AD-760 900, AD-760 910, AD-760 920. 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) *Psychological Tests *Personality Tests
*Bibliographies *Psychomotor Tests Personality Predictions *Achievement Tests Motivation Selection *Aptitude Tests Performance (Human) Behavior Learning *Intelligence Tests (See Reverse) 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This bibliography contains unclassified-unlimited citations on Psychological Tests to include reports which describe the rationale and development of tests which measure personality, intelligence, social acceptability, motivation and evaluation of personnel by selective motor learning. The effective use of non-intellectual tests for measurements of ability and performance, and its predictive validity of success. Three computer-generated indexes provided are Corporate Author-Monitoring Agency, Subject, and Title.

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SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered)

Item 19 Key Words (Cont'd)

Adjustment (Psychology) Reaction (Psychology) Judgement (Psychology) Training Group Dynamics Indexes

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selective motor levening, the effective was of non-intellection bests for measurements of mbility and performance, and its prodi-

FORWORD

This bibliography contains 695 unclassified-unlimited citations on Psychological Tests. There are 149 citations to Achievement Tests, 204 citations to Aptitude Tests, 66 citations to Intelligence Tests, 171 citations to Personality Tests and 105 citations to Psychomotor Tests.

Entries have been selected from references processed into the Defense Documentation Center data bank from January 1953 through January 1978. Many of the reports describe the rationale and development of tests which measure personality, intelligence, social acceptability, motivation and evaluation of personnel by selective motor learning; the effective use of non-intellectual tests for measurements of ability and performance and relationship between aptitude performance and its predictive validity of success.

This report supersedes DDC report bibliographies on Psychological Tests, Achievement and Psychomotor Tests, AD-760 900, DDC-TAS-73-30-I; Intelligence and Personality Tests, AD-760 910, DDC-TAS-73-II; Aptitude Tests, AD-760 920, DDC-TAS-73-30-III, dated June 1973.

Individual entries are arranged in AD number sequence under the heading bibliographic references. Computer-generated indexes of Corporate Author-Monitoring Agency, Subject and Title are provided. BY ORDER OF THE DIRECTOR, DEFENSE LOGISTICS AGENCY

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Administrator

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CONTENTS

	Page
FOREWORD	iii
AD BIBLIOGRAPHIC REFERENCES:	
SECTION A. ACHIEVEMENT TESTS	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	0-1 D-1
TITLE	T-1
SECTION B. APTITUDE TESTS	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	0-1 D-1 T-1
SECTION C. INTELLIGENCE TESTS	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	0-1
SUBJECT	D-1 T-1
SECTION D. PERSONALITY TESTS	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	0-1
SUBJECT	D-1 T-1
SECTION E. PSYCHOMOTOR TESTS	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	0-1 D-1
SUBJECT	T-1



ACHIEVEMENT TESTS

*Test construction(Psychology),

DESCRIPTORS:

UNCLASSIFIED REPORT

3 3 Study III showed that a 50 percent savir:s in terms, and, potentially, a large savings in test time flexilevel testing was a sensitive measure of student protocols cross-validated remarkably well to groups study showed that for reasonable high entry points. overall conclusion from the three studies was that flexilevel testing, with variable entry, offers an easily implemented testing procedure with potential for significant dollar savings at minimal risk. suggested that feasibility studies; i.e., running actual subjects, may not be called for. The second study showed that the proportion correct during performance. It was also concluded that the modest time savings (12 to 15 percent) was due to the *Computer aided instruction, *Adaptive training, Individualized training, Computerized simulation, Simulation, Achievement tests, Mental ability, Algorithms, Regression analysis, Mathematical prediction, Air Force training
IDENTIFIERS: Adaptive testing, Flexilevel testing, Computerized testing, PE62205F, This study used a series of simulations to answer could be realized through the implementation of alternate flexilevel strategies. In summary, the questions raised by empirical studies. The first parameters used to implement flexilevel testing. parameters estimated from paper-and-pencil test actually tested at a computer terminal. This WUAFHRL11210309 (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20MO7

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

UNCLASSIFIED

STANFORD UNIV CALIF SCHOOL OF EDUCATION 5/10 AD-A050 774

Correlation of Selected Cognitive Abilities and Cognitive Processing Parameters: an Exploratory Study.

3

DESCRIPTIVE NOTE: Final rept. 1 May 75-30 Apr 77, SEP 77 24P Harris, Dickie A.; Pennell,

REPT. NO. AFHRL-TR-77-51

1121

Roger J. :

Simulated and Empirical Studies of Flexilevel

Testing in Air Force Technical Training

Courses.

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

AD-A050 829

3

Snow, Richard E. ; Marshalek, DESCRIPTIVE NOTE: Technical rept., Brachia :Lohman, David F. :

CONTRACT: N00014-75-C-0882

UNCLASSIFIED REPORT

DESCRIPTORS: *Information processing, *Searching, Masking, Intelligence, Performance (Human), Skills, Models, Performance tests, Achievement tests, Correlation techniques IDENTIFIERS: *Cognition, *Abilities, Individual differences, Short term memory, wUNR154376 Visual perception, Aptitudes, Memory(Psychology), Short range(Time),

3

3 3

regression of parameters on ability variables yielded tests and several film tests were administered to all students. One of the film tests was designed to did not correlate more substantially with processing and digit span scores were available from that study larger R's than the regressions of abilities on the parameters. The short term visual memory film test computed separately for ability tests and the short term visual memory test. These scores and other raw variables were then correlated with the parameters Slope and intercept parameters for the search tasks produce an 'erasure' or backward masking effect in parameters and ability variables were low, and the on all subjects. A battery of traditional ability regression methods were used to regress ability variables on parameters and parameters on ability measures. In general, correlations between between tested ability variables and processing parameters obtained from memory search and visual search tasks. The 25 undergraduate students who participated in this study has participated in a previous investigation by Chiang and Atkinson. This pilot study investigated some relationships short term visual memory. Factor scores were parameters than it did with ability factors. from the Chiang/Atkinson study. Multiple

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD-A050 405 5/9
CENTER FOR NAVAL ANALYSES ARLINGTON VA INST OF NAVAL STUDIES

3 Success Chances of Recruits Entering the Navy (Screen),

Lockman, Robert F. CONTRACT: NO0014-76-C-0001 65P FEB 77

UNCLASSIFIED REPORT

DESCRIPTORS: *Recruits, *Naval personnel, Skills, Enlisted personnel, Careers, Career ladders, Probability, Achievement tests, Aptitude tests, Apt i tudes

3

Navy (SCREEN) are validated and extended from the first through the second year of service. Selection mental group measurement and irregularities in AFQT rates and predicted one- and two-year loss rates at different SCREEN cutting scores are calculated for conversion of AFQT scores derived from the current test administration since 1973 are pointed out. A Armed Services Vocational Aptitude Battery (ASVAB) to the mental groups used in SCREEN is provided, along with revised SCREEN chances for recruitment planning. Inconsistencies in AFQT Success Chances of REcruits Entering the ASVAB mental groups. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

MISSOURI UNIV-COLUMBIA TAILORED TESTING RESEARCH LAB Using the One and Three Parameter Logistic Models: A Comparative Study. Ability Estimation and Item Calibration

3

Reckase, Mark D. DESCRIPTIVE NOTE: Research rept., OCT 77 69P

REPT. NO. RR-77-1 CONTRACT: N00014-77-C-0097 RR0420401 PROJ: RR04204

UNCLASSIFIED REPORT

Calibration, Multivariate analysis, Eigenvalues, Parameters, Estimates IDENTIFIERS: Latent trait calibration, PE61153N, *Mathematical models, *Achievement tests, *Skills, *Aptitude tests, DESCRIPTORS:

3 3

WUNR150395

available to calibrate dichotomous items for tailored effects of item quality, and the cost of calibration. their suitability for use with multivariate item pools, the sample size required for calibration, the were found to estimate different components when the tests measured several independent factors. The testing applications. From the procedures, the most promising techniques for the calibration of items using the one- and three-parameter logistic models were selected for comparison. The maximum three-Darameter model estimated parameters from one of the factors, ignoring the others, while the one-parameter model estimated the sum of the factors. Sixteen data-sets were used for these evaluations; eight live testing data-sets, and eight simulation procedures was reviewed to determine the methods Panchapakesan was selected for the one-parameter model; and the estimation procedure for use with and Lord, was selected for the three-parameter model. The two procedures were then compared on structures. The one- and three-parameter models omitted responses, developed by Wood, Wingersky data-sets generated to match specified factor likelihood procedure developed by Wright and The literature on latent trait calibration

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AD-A047 203 SEARCH CONTROL NO. ZOMO7 MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHT.OGY DDC REPORT BIBLIOGRAPHY

An Information Comparison of Conventional and Adaptive Tests in the Measurement of Classroom Achievement.

AD-A047 495

3

Bejar, Isaac I. : Weiss, DESCRIPTIVE NOTE: Technical rept., David J. ; Gialluca, Kathleen A. ; 43P RR-77-7 REPT. NO.

CONTRACT: N00014-76-C-0627

RR0420401 RR04204 PROJ:

UNCLASSIFIED REPORT

Assessment, Learning, Students, Universities, DESCRIPTORS: *Achievement tests, *Test construction(Psychology), Adaptive systems, Stradaptive tests, PE61153N, Proficiency, Comparison, Computer aided instruction, Performance(Human), Discrimination

WUNR 150389

3 3

length of the test. Comparison of the improved conventional test with the stradaptive test indicated conventional classroom achievement tests is compared more precise estimates of achievement level than the measurement can result from the addition to the pool also that the scores derived from the adaptive test were more precise even in the range of achievement where the improved test was designed to be optimal. Analysis of the effects of expanding an adaptive test item pool indicates that improved precision of comparison of response pattern information values covering the same subject matter. Both tests were biology course. Using the same scoring method, adaptive testing was found to yield substantially with the information provided by an adaptive test achievement, while at the same time reducing the (observed information) with test information values (theoretical information) shows that the observed information consistently underestimates administered to over 700 students in a general classroom test throughout the entire range of of only slightly more discriminating items. A Information provided by typical and improved theoretical information,

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20MO7

1-A047 203 5/9 5/1 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

A Job-Oriented Reading Program for the Air Force: Development and Field Evaluation.

3

DESCRIPTIVE NOTE: Final rept. 1 Jul 75-30 Apr 77, MAY 77 138P Huff, Kent H. ; Sticht, MAY 77 138P Huff, Kent H. ; Sticht, Thomas G. ; Joyner, John N. ; Groff, Steven D.

; Burkett, James R. ; CONTRACT: F41609-76-C-0001 PROJ: 1121

TR-77-34 MONITOR: AFHRL TASK: 04

UNCLASSIFIED REPORT

Reading, Air Force personnel, Job analysis, Performance(Human), Problem solving, Skills, Achievement tests, Students, Careers, Personnel DESCRIPTORS: *Literacy, *Enlisted personnel, development, Air Force training IDENTIFIERS: Job oriented reading program, JORP(Job oriented reading program), WUAFHRL11210411, PE62703F

3

3

included special requirements that the reading grade level (RGL) of JORP be set at 9.0; student input the effectiveness of this approach in an operational This report describes a study undertaken to respond more fully to the current literacy problems in the Air Force. This involved the development, demonstrate the feasibility of using a job-related approach to reading instruction with airmen in the Air Force training systems, and (b) to test implementation, and evaluation of a prototype Jobsetting by using job-related reading materials to integrated in the duty day of the permanent party hours per day for five days a week for six weeks. The JORP prototype program was field tested during 1976 at Travis AFB, California. mprove airmen's performance. Design of the JORP RGL was from 6.0 to 8.9; JORP training was to be personnel; and time available for training 2-1/2 stressed the acquisition and development of jobrelated reading skills for Air Force personnel. Oriented Reading Program (JORP) which The two major objectives were (a) to

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A046 062

An Adaptive Testing Strategy for Achievement Test Batteries.

3

Brown, Joel M. : Weiss, David DESCRIPTIVE NOTE: Research rept., 52P OCT 77

N00014-76-C-0627 NO. RR-77-6

RR0420401 RR04204

. UNCLASSIFIED REPORT

*Achievement tests, *Adaptive systems, Data acquisition, Psychological tests, Test sets, Correlation techniques, Information theory, Order statistics, Parameters, Criteria, Personality, Scoring, Training devices, Fire control systems, Operators(Personnel) *Multiple disciplines, Computerized simulation, DESCRIPTORS:

IDENTIFIERS: WUNR150389, PE61153N

33

3 selection both within and between the subtests in the total number of items in the conventional test, while between subtest scores from adaptive and conventional results for 365 fire-control technicians on a paper-and-pencil administration of a 232-item achievement test which was divided into 12 subtests, each covering a different content area. Correlations items administered with adaptive testing was half as many as was required with conventional testing; the shortest adaptive test battery used 18% of the with achievement tests which cover multiple content areas. The testing strategy combines adaptive item testing were .90 or higher for eleven of the twelve from adaptive testing were essentially identical to content areas. An information analysis showed that for all 12 subtests, the subtest information curves the corresponding subtest information curves from conventional testing. On the average, the number of was conducted in order to compare the results from adaptive testing with those from conventional ength. Data for the simulation consisted of test An adaptive testing strategy is described for use multiple-subtest battery. A real-data simulation esting, in terms of test information and test the longest used 80% content

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A044 828

Calibration of an Item Pool for the Adaptive Measurement of Achievement.

3

Bejar, Isaac I. ; Weiss, DESCRIPTIVE NOTE: Research rept.,

David J.; Kingsbury, G. Gage; PT. NO. RR-77-5 REPT. NO.

N00014-76-C-0627 CONTRACT:

RR0420401 RR04204 PROJ:

UNCLASSIFIED REPORT

DESCRIPTORS: *Achievement tests, Curve fitting, Mathematical models, Computerized simulation,

Factor analysis IDENTIFIERS: Adaptive tests, WUNR150389, PE61153N

3 3

The applicability of item characteristic curve

parameters of items administered to two different samples reveals the possibility of a deviation from invariance in the discrimination parameter but a high degree of invariance for the difficulty parameter. achievement framework is summarized, and the adequacy found to be similar to those used in adaptive testing for adaptive testing of a classroom achievement test measurement item pools, the item difficulties and discriminations in this achievement test pool were indged to be adequate for use in adaptive testing. The pool as a whole, as well as two subpools, is rationale for attempting to use ICC theory in an (ICC) theory to a multiple-choice test item pool item pool in a college biology class is studied. Using criteria usually applied to ability inappropriate for application to typical college pools for ability testing. Studies of the dimensionality of the pool indicate that it is primarily unidimensional. Analysis of the item it is also concluded that the ICC model is not used to measure achievement is described. The

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classroom achievement tests similar to the one

studied. (Author)

ZOMOZ SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A039 255

A Comparison of Information Functions of fultiple-Choice and Free-Response Vocabulary Items.

3

DESCRIPTIVE NOTE: Technical rept.,
APR 77 18P Vale,C. David ;Weiss,David

N00014-76-C-0243 RR-77-2 R04204 CONTRACT: Ņ. PROJ:

RR0420401

UNCLASSIFIED REPORT

methods, Comparison, Scoring, Algorithms, FORTRAN, Statistical tests, Automation, Adaptive DESCRIPTORS: *Test construction(Psychology), *Vocabulary, Experimental design, Achievement tests, Students, Man computer interface, Performance (Human), Word recognition, Tes' systems

3 3 IDENTIFIERS: Free response, Multiple choice tests, WUNR150382, PE61153N

3 free-response items were then calibrated occording to Bock's polychotomous logistic model. One item was discarded because of extremely poor fit with the model, and test information functions were determined free-response vocabulary items were administered to 660 college students. The free-response items consisted of the stem words of the multiple-choice items. Testees were asked to respond to the free-response items with synonyms. A computer algorithm was developed to transform the numerous free-responses entered by the testees into a manageable number of categories. The multiple-choice and the information were obtained from the free-response items over most of the range of abilities between Twenty multiple-choice vocabulary items and 20 rom the other 19 items. Higher levels of theta = -3.0 to theta = +3.0. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO AD-A038 536 CALIF

Reading Retention as a Function of Method for Generating Interspersed Questions.

3

Wolfe, John H. DESCRIPTIVE NOTE: Final rept., APR 77 65P F REPT. NO. NPRDC-TR-77-29

Z0108PN 20108

UNCLASSIFIED REPORT

*Naval training, Instructional materials, Comprehension, Recruits, Naval personnel, Reading, Algorithms, Computer aided instruction, Natural language, Teaching methods, Achievement DESCRIPTORS: *Test construction(Psychology),

IDENTIFIERS: WUZ0108PN32, PE63720N

33

those from human-generated questions. No indirect effects of human or computer questions were observed the AUTOQUEST computer program, and two types of cloze algorithms. Results showed that cloze questions interfered with retention and direct improvement effects from AUTOQUEST were as large as different procedures: human linguistic processing, An experiment with 356 Navy recruits compared the (interspersed) questions generated by four effects on reading retention of adjunct

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A037 926 5/9 RAND CORP SANTA MONICA CALIF Issues of Reliability and Directional Bias in Standarized Achievement Tests: The Case of MAT70,

3

JUL 76 30P Barker, Pierce; Pelavin, Sol H.: REPT. NO. P-5689

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Harvard Univ., Cambridge, Mass. and Stanford Research Inst., Menlo Park, Calif. Presented at the Annual Meeting of the American Educational Research Association, 1976.

DESCRIPTORS: *Achievement tests, Reliability, Validation, Education, Standardization, Scoring

3

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A036 997 5/9
ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ARLINGTON VA

Procedures for Validating Skill Qualification Tests,

3

JUL 76 84P Hirshfeld, Stephen F. ; Young, Douglas L. ; Maier, Milton H. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Achievement tests, *Validation, Skills, Qualifications, Test methods, Performance(Human), Ranking, Methodology

3

Improved procedures for validating Skill Qualification Tests have been prepared. The improved procedures are based on experience gained during development of SQT by the schools in EPMS Implementation Group I and review by ITEG. An outline of the new validation procedures is presented at Inclosure 1. The details of the new validation procedures are presented in this letter which incorporate the most current guidance and are at Inclosure 2.

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

1-4035 863 5/9 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

The Acquisition and Retention of Visual Aircraft Recognition Skills.

E

Final rept. 3 Mar 75-3 Oct 76, P Baldwin, Robert D. ; Cliborn, Robert E. : Foskett Robert J. : REPT. NO. HUMRRO-FR-WD-TX-76-10 CONTRACT: DAHC19-75-C-0020 82P DESCRIPTIVE NOTE: NOV 76

PROJ: 20762717A721 TASK: 00

MONITOR: ARI TR-76-A4

UNCLASSIFIED REPORT

3 UESCRIPTORS: *Army training, Learning, Aptitudes, Teaching methods, Retention(Psychology), Effectiveness, Achievement tests
IDENTIFIERS: *Visual aircraft recognition(VAR), PE62717A, AS721

3

effectiveness of training visual aircraft recognition (VAR), evaluated the transfer of training from static to dynamic imagery testing; and evaluated VAR saturation and retention levels in an Army unit training environment. It was found that, Applied training research measured the

although the overall average gains in training were the same for the two training methods, lower aptitude men learned more under lock-stepped instruction, and higher aptitude men gained more under self-paced instruction. The VAR skills developed from training with static images did transfer to a dynamic learned in successive blocks. All the test personnel from two batteries achieved the final goal of 80 aircraft. None of the members of one of the attributed to differences in training management and test situation involving model aircraft which moved. Men from four batteries participated in a program in which 20, 40, 60, and 80 sircraft had to be other batteries achieved the program objectives. Variation in achievement of the batteries was

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SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO AD-A035 672

Comparative Racial Analysis of Enlisted Advancement Exams: Item Differentiation.

3

Final rept. May 74-May 76, P Robertson, David W.; Royle. Marjorie H. : Morena. David J. ; DESCRIPTIVE NOTE:

REPT. NO. NPRDC-TR-77-16 PROJ: 2F55-521 TASK: 2F55-521-031 2F55-521

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jul 75, AD-A014 549.

DESCRIPTORS: *Achievement tests, *Ethnic groups, *Enlisted personnel, Naval planning, Naval personnel, Promotion(Advancement), Comparison, Difficulty, Test construction(Psychology), Negroes, Caucasians, Careers, Reliability, Test methods

IDENTIFIERS: Item analysis

33

advancement exam items are similarly differentiating quality as measured by item differentiation or test reliability. The study specifically investigated (1) the difference in item differentiation between Blacks and Whites, (2) itembetween good and poor performers of racial groups. Techniques were also investigated to improve test differentiation was conducted to determine whether construction or processing procedures which would raise test quality for both Blacks and Whites. particular types of items deleted, and (4) exam difficulty levels that yield maximum item differentiation, (3) the impact on item differentiation from constructing tests with A comparative racial analysis of item

3

practice. (Author)

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

5/10 RAND CORP SANTA MONICA CALIF AD-A032 091

Discriminant Analysis and Classification of Teaching Effectiveness using Student Ratings: The Search for Doctor Fox,

 $\widehat{\Xi}$

Ware, John E. , Jr.: MAR 76 21P Williams, Reed G.; REPT. NO. P-5600

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Conference on Research in Medical Education (14th) Nov 75, Washington, D. C.

33 DESCRIPTORS: *Instructors, *Ratings, *Discriminate analysis, Students, Lectures, Group dynamics, Attitudes(Psychology), Achievement tests, Learning, Standard deviation, Education IDENTIFIERS: Doctor fox effect eaching methods, Scoring,

3 to improve the usefulness of student-faculty ratings in detecting differences in lecturer types. Equivalent groups of college students viewed lectures delivered by a Hollywood actor so as to vary in number of substantive teaching points covered (enthusiastic, unenthusiastic). Students rated lecturer effectiveness using an 18-item questionnaire differences in faculty enthusiasm in both studies but were not valid in the second study for differences in differentiating among lecturer types and were cross-validated in a second study of groups of students who derived in the first study were valid in relation to information-giving. Results were explained in terms of the 'Doctor Fox Effect' and suggestions were like those commonly used. Optimal scoring methods were derived in the first study for the purpose of This investigation employed discriminant analysis offered for future research. (Author) (high, low) and presentation manner

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ZOMOZ SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX 5/10 AD-A030 516

A Note on the Relationship between n Ach and Uric Acid.

3

DESCRIPTIVE NOTE: Final rept. Aug-Oct 75, JUN 76 4P Benel, Russell A. ; JUN 76 4P REPT. NO. SAM-TR-76-210 PROJ: AF-7930

TASK: 793009

UNCLASSIFIED REPORT Availability: Pub. in Psychological Reports, 39 p524-526 1976. DESCRIPTORS: *Uric acid, *Achievement tests, Motivation, Personality, Correlation techniques, Questionnaires, Air Force personnel, Reprints

3

acid levels was investigated. Others had previously hypothesized that unic acid levels would correlate positively with motivational measures of achievement. In no case did unic acid and n Ach (Edwards', Hermans' and Lynn's scales) correlate positively but the computed negative correlations did not differ significantly from zero. The relationship between n Ach and serum uric

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

DEFENSE DOCUMENTATION CENTER ALEXANDRIA "A

Performance Measurement.

3

DESCRIPTIVE NOTE: Report bibliography May 61-Apr 76. SEP 76 547P REPT. NO. DDC/818-76/08 PROJ: DSA-658-015

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. DDC-TAS-72-7 dated Sep 72, AD-749 100.

personnel, Achievement tests, Aptitude tests, Predictions, Military training, Training devices, Psychological tests, Test methods, Psychomotor DESCRIPTORS: *Performance tests,
Performance(Human), *Bibliographies, *Military Stress(Physiology), Motivation, Training tests. Stress(Psychology),

3 performance. Training devices, aptitude and achievement tests, special clothing and equipment are studies. There are also references on environmental, physical and stress factors, which not all employed to establish the criteria used in these This bibliography contains studies which aid in measuring and assessing data relevant to human only evaluate performance, but under certain conditions may predict it. Corporate Author-Monitoring Agency, Subject, Title and Personal Author are provided. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A027 170

Psychological Effects of Immediate Knowledge of Results and Adaptive Ability Testing.

3

Betz, Nancy E. : Weiss, David DESCRIPTIVE NOTE: Research rept., 39P JUN 76

N00014-76-C-0243 RR042-04, NR150-382 REPT. NO. RR-76-4 RR042-04-01 CONTRACT:

UNCLASSIFIED REPORT

DESCRIPTORS: *Feedback, *Adaptation, *Achievement tests, Mental ability, Individualized training, Motivation, Anxiety, Performance(Human), Programmed instruction, Psychological tests, Perception(Psychology), Stress(Psychology), Adaptive systems, Quick reaction, Computer aided IDENTIFIERS: Knowledge of results, Stradaptive instruction

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3 3

> results suggest that adaptive testing creates a psychological environment for testing which is more equivalently motivating for examinees of all ability the conventional test, while the reported motivation evels of motivation on the stradaptive test than on conventional tests administered with or without immediate knowledge of results. Testees were 350 college students divided into high- and low-ability groups and randomly assigned to one of four test strategies by KR conditions. The ability level of examinees was found to be related to their reported levels of motivation and to differences in reported motivation under the different testing conditions. Low-ability examinees reported significantly higher immediate knowledge of results (KR) and adaptive testing on test anxiety and test-taking motivation. This study investigated the effects of providing knowledge of results on reported Motivation also differed as a function of ability level. These Also studied was the accuracy of student perceptions of the difficulty of adaptive and of high-ability examinees did not differ as a function of testing strategies. The effect of

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A027 147

Effects of Immediate Knowledge of Results and Adaptive Testing on Ability Test Per formance.

Betz, Nancy E. : Weiss, David DESCRIPTIVE NOTE: Research rept., 416 30 NOT

CT: N00014-76-C-0243 RR042-04, NR-150-382 RR-76-3 è CONTRACT:

RR042-04-01

UNCLASSIFIED REPORT

Optimization, Adaptive systems, Learning, Psychological tests, Mental ability, Verbal behavior, Performance tests, Scoring, Quick reaction, Accuracy, Motivation, Computer aided ESCRIPTORS: *Achievement tests, *Test construction(Psychology), Performance(Human), IDENTIFIERS: Stradaptive tests, Knowledge of DESCRIPTORS: instruction

results

3 3

knowledge of results (KR) concerning the correctness of incorrectness of each item response on a computer-administered test of verbal ability. The difference was statistically significant only for the effects of KR were examined on a 50-item conventional test and a stradaptive ability test and in high- and low-ability groups. The primary dependent variable was maximum likelihood ability estimates derived from the item responses. Results indicated that mean test scores for the High-Ability group receiving KR were higher than for the No-KR group on both conventional and stradaptive tests. For Low-Ability examinees. conventional test. However, the higher mean scores mean scores were higher under KR conditions than This study investigated the effects of immediate test indicated that, for low-ability examinees, adaptive testing had the same effects on test performance as did provision of immediate KR. he Low-Ability testees on the stradaptive under No-KR conditions on both tests, but the

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

BEHAVIORMETRICS SANTA MONICA CALIF AD-A018 979

Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis,

 $\tilde{\Xi}$

3

Blanchard, Robert E. ; REPT. NO. 103-5 CONTRACT: N00123-73-C-1105 89P

UNCLASSIFIED REPORT

UPPLEMENTARY NOTE: See also report dated Jun 73, AD-A018 978 and report dated Sep 74, AD-A018 981. SUPPLEMENTARY NOTE:

*Psychological tests, *Instructors, *Marine biology, Achievement tests; Personality tests, Jobs, Attitudes(Psychology), Reliability, Naval training, Mammals IDENTIFIERS: Biosystems personnel test battery, Vocational interests, Marine mammal trainers, Performance(Human), Predictions, Correlation techniques, Questionnaires, Test methods, Job success prediction DESCRIPTORS:

3

3

3 Battery. The battery consisted of 22 predictor variables including tests of ability, personality and preference inventories and a personal history questionnaire (PHQ). Criterion variables were 11 job performance dimensions, identified in an earlier study, and an overall global criterion of performance. Subjects were 30 experienced marine mammal trainers for which test battery data had been gathered over a period of several years. Ten A preliminary validation study was conducted on the predictors of the Biosystem Personnel Test marine mammal trainer performance rating checklist. supervisors rated the 30 subjects on each of the criterion dimensions using a specially-constructed

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A018 978 5/10 5/9
BEHAVIORMETRICS SANTA MONICA CALIF

Biosystems General Information Test: Form

3

JUN 73 45P Blanchard, Robert E. REPT. NO. 103-2 CONTRACT: N00123-73-C-1105

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jun 72, AD-A018 977 and report dated Mar 74, AD-A018 979.

DESCRIPTORS: *Achievement tests, *Instructors, *Mammals, *Training, Marine biology, Test construction(Psychology), Taxonomy, Behavior, Methodology, Water traffic, Boats, Charts, Difficulty, Naval training IDENTIFIERS: Biosystems general information test, Marine mammal trainers, Animal behavior, Animal behavior, Animal husbandry, Man animal rapport

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Form A of the Biosystems General
Information Test, a 100 item achievement test
with three sections. Based on job dimension
research, Form A was revised to contain four job/
knowledge areas: Marine Mammals - taxonomy and
capabilities, care and handling of marine mammals,
training techniques and procedures, and principles of
animal conditioning. Section 3 of Form A was
removed to be treated as a separate test. The form
was administered to 36 subjects performing various
duties with marine mammals at NUC. An internal
consistency item analysis was then carried out to
identify items with satisfactory discrimination and
difficulty levels and to develop unified subtests for

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A015 027 5/10 EDUCATIONAL TESTING SERVICE PRINCETON N Research on Assessing Human Abilities.

3

DESCRIPTIVE NOTE: Final rept. 1 Nov 70-31 Mar 75, JUL 75 27P Harman, Harry H.;

JUL 75 27P Ha REPT. NO. ETS-PR-75-20 CONTRACT: NO0014-71-C-0117 PRDJ: NR-150-329

UNCLASSIFIED REPORT

DESCRIPTORS: *Personality, *Test construction(Psychology), *Personality tests, *Achievement tests, Factor analysis, Standards, Validation, Aptitudes, Memory(Psychology), Perception(Psychology), Skills, Reasoning, Language, Leadership, Emotions, Attitudes(Psychology)
IDENIFIERS: Cognition, Temperament

33

The focus of this study was explicitly on two areas: (1) To provide reference measures for cognitive factors; and (2) To provide a guide to reference measures for self-report temperament factors. The overall objective of the project has been to conduct research in the area of factor analysis directed toward the identification of tests and other instruments that can serve as markers for well-established factors.

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY

→8013 185 5/9 5/10 MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCH⊃LOGY AD-A013 185

Empirical and Simulation Studies of Flexilevel Ability Testing.

3

DESCRIPTIVE NOTE: Technical rept., JUL 75 51P Betz, Nancy E. ; Weiss, David N00014-67-0113-0029 RR-75-3 CONTRACT: REPT. NO.

UNCLASSIFIED REPORT

NR-150-343, RR042-04 RR042-04-01

PROJ:

DESCRIPTORS: *Achievement tests, *Psychological tests, Automation, Sequential analysis,

IDENTIFIERS: *Abilities Ratinds

33

3 conventional test were compared using data obtained through (1) computer-administration of the two tests to three groups of college students, and (2) Monte Carlo simulation of test response patterns. The overall test-retest stability of the two tests was equivalent, but there was evidence indicating that memory effects inflated the stability of the flexilevel test scores less than that of (U A 40-item flexilevel test and a 40-item

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY

0-4005 785 5/10 5/9 URS/MATRIX RESEARCH CO FALLS CHURCH VA AD-A005 785

Evaluating Maintenance Performance Test Administrator's Manual and Text Subject's Instructions for Criterion Referenced Job Task Performance Tests for Electronic Maintenance.

3

DESCRIPTIVE NOTE: Final rept. 1 Jan 69-16 Jul 74, Jun 75 637P Shriver, Edgar L. : Hayes, John F. : Hufhand, William R. ; CONTRACT: F33615-69-C-1232, F33615-70-C-1695

PROJ: AF-1710 TASK: 171010

TR-74-57(II)-Pt-2 MONITOR: AFHRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 1 dated Sep 74, AD/A-004 845.

DESCRIPTORS: *Maintenance personnel, *Achievement tests, Performance(Human), Measurement, Training, Electronic equipment IDENTIFIERS: Job task performance tests

33

of this series of documents, reports and describes the development and tryout of this battery of The purpose of this document is to furnish a complete copy of the Test Subject's Instructions and the Test Administrator's Handbook for a battery of criterion referenced Job Task Performance Tests (JTPT) for electronic maintenance. Part I of Volume II

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tests.

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIDGRAPHY

ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ARLINGTON VA AD-A001 534

Development of a Programmed Testing System.

3

Bayroff, A. G. ; Ross, Robert DESCRIPTIVE NOTE: Final rept., M. ; Fischl, M. A. ; 19P

REPT. NO. ARI-Technical paper-259 PRGJ: DA-2-T-061101-A-91-B

UNCLASSIFIED REPORT

DESCRIPTORS: *Psychological tests, automation, Achievement tests, Computer applications, Test equipment, Computer programming, Examination, Reliability

computer; the report describes the equipment and the components. The system is designed for tests tailored to the ability of the examinee, in which administering, scoring, and recording results of multiple-choice tests. The system consists of examinee station, proctor station, and central more difficult question is presented after each correct answer or an easier question after each programing characteristics of the respective The report describes an automated system for incorrect answer.

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20MO7

AD- 910 397 5/9 NAVAL TRAINING EQUIPMENT CENTER ORLANDO FLA

The Evaluation of Two Automated Systems for Teaching Typewriting.

3

Sharkey, Vincent J. : Thomas, DESCRIPTIVE NOTE: Technical rept.,
MAR 73 91P Sharkey, Vii

NAVTRAEQUIPC-IH-220 REPT. NO. UNCLASSIFIED REPORT

3 3 DESCRIPTORS: (*TYPEWRITERS, *NAVAL TRAINING), TEACHING METHODS, OPERATORS(PERSONNEL), NAVAL PERSONNEL, AUTOMATION, PERFORMANCE(HUMAN), INSTRUCTORS, ACHIEVEMENT TESTS, COST EFFECTIVENESS, ACCURACY, VELOCITY, COMPUTER PROGRAMS, DIGITAL COMPUTERS, TEACHING MACHINES, MOTION DISPLAY SYSTEMS, ANALYSIS OF VARIANCE, STATISTICAL ANALYSIS, FLORIDA IDENTIFIERS: AUDIOVISUAL INSTRUCTION, COMPUTER AIDED INSTRUCTION, NAVY CLASS A SCHOOLS, ORLANDO(FLORIDA), *TYPEWRITING, YEOMEN

3

training, instructor ratings, classroom observations and the systems' reliability, maintainability and costs. Suggestions were made with respect to Two automated systems for teaching typing were compared with the conventional method used at the possible users of the various systems. (Author) at Orlando, Florida, and with the conventional method modified by the School's faculty. The basis for the comparisons were: trainee performance scores achieved during and after Personnelman and Yeoman Class 'A' Schools

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

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- 805 310 5/10 WASHINGTON UNIV ST LOUIS MO DEPT OF PSYCHOLOGY AD- 805 310

SOME NON-INTELLECTUAL PREDICTORS OF CLASSROOM SUCCESS.

3

DESCRIPTIVE NOTE: Technical rept., OCT 66 24P

Nonr-816(14) REPT. NO. UNCLASSIFIED REPORT

FESCRIPTORS: (*PERFORMANCE(HUMAN), PREDICTIONS),
(*LEARNING, *PSYCHOLOGICAL TESTS), CORRELATION
TECHNIQUES, PERFORMANCE(HUMAN), STANDARDS, ACHIEVEMENT
TESTS, PERSONALITY TESTS, ANALYSIS OF VARIANCE, APTITUDE
TESTS, EFFECTIVENESS, TRAINING, NAVAL PERSONNEL,
INTELLIGENCE TESTS, EDUCATION
(U) DESCRIPTORS:

regularly to prospective trainees in the electronics fundamentals course. (Author) effectiveness of non-intellectual variables in the measures added unique predictive variance with all three achievement criteria. It was found that the sufficient predictive value to be administered used: pass-fail, final standing, and residual gain. Results showed that non-intellectual prediction of success in Naval Air Technical fraining. Three criteria of achievement were This study was undertaken to investigate the Edwards Personal Preference Schedule are of Navy Vocational Interest Inventory and the

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AMERICAN INSTITUTES FOR RESEARCH SILVER SPRING MD SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY AD- 800 078

A READING COMPREHENSION TEST.

3

DESCRIPTIVE NOTE: Final rept.,

Victor H. ; CONTRACT: AF 30(602)-3459

TR-66-378 MONITOR: RADC PROJ: AF-4599

UNCLASSIFIED REPORT

DESCRIPTORS: (*READING, ACHIEVEMENT TESTS), (*MACHINE TRANSLATION, PERFORMANCE(HUMAN)), ERRORS, TEST CONSTRUCTION(PSYCHOLOGY), SCHEDULING, SELECTION, REASONING, DECISION MAKING, RUSSIAN LANGUAGE, GEOGRAPHY, PHYSICS, ELECTRICAL ENGINEERING

the study. For general comprehensibility, hand translations were generally superior to unedited machine translations, but these differences were less unedited machine translations of representative areas comprehension of categories of questions which differed in terms of: abstractness, the kind of content to which questions referred, the presence of transliterated cognate words in the text, and scope. professional workers with a Master's degree and at least three years of field experience were used in comprehension of hand translations and edited and Earth Sciences using machine translations who did with at least a Master's degree background and 36 rate scores were determined for openbook tests of of Russian scientific and technical documents in graduate students in Physics and Comprehension accuracy, work time, and accuracy Russian or from the performance of professional Physics, Earth Sciences, and Electrical Engineering. A total of 390 graduate students performance of graduate students who did read consistent. Similar patterns were found in Professional worker groups did not differ. not read Russian did not differ from the Morkers. Similarly, Russian reader and Performance of (Author)

SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF 5/10

Pupil Diameter Versus Task Layout.

3

Noel, Charles Edward ; DESCRIPTIVE NOTE: Master's thesis, 29P

UNCLASSIFIED REPORT

ability, Correlation techniques, Light sources, Colors, Decision making, Measuring instruments, *Pupil(Eye), Test construction(Psychology), Test methods, Information processing, Mental DESCRIPTORS: *Performance(Human), *Stress(Psychology), *Achievement tests, Test equipment, Theses

IDENTIFIERS: *Task performance, *Forced choices, Pupil size(Eye), Pupillometers

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activity, this experiment investigated a spatially compatible and non-compatible forced choice task. presentation rate in the compatible layout than in already in a pupil constricted condition (overloaded) in a non-compatible arrangement, it was found the constriction could be significantly Using pupil size as an indirect measure of mental reduced by switching to a compatible arrangement. the non-compatible layout without going into an overload condition. Also, when subjects were It was found subjects could process a higher

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

RAND CORP SANTA MONICA CALIF AD- 786 579

Going Beyond the Mean in Educational Evaluation,

3

Klitgaard, Robert E. 39P REPT. NO. P-5184

UNCLASSIFIED REPORT

DESCRIPTORS: *Education, Performance, Statistical processes, Mean, Reviews, Benefits, Assessment, Achievement tests, Analysis of variance

3

Large-scale educational evaluations and government data systems often throw away useful information, since they rely almost exclusively on average scores and average effects. This paper recommends a different course of action. It discusses the mean as easy to use since more knowledge is better than some, one should go beyond simple averages. It is admitted that the measures proposed need further research before their exact properties are unders tood.

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AD- 784 200 5/9
HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

3 fest and Evaluation of Training Extension Course (TEC).

IE: Technical rept., 42P Jacobs, T. O. ; Hardy, Richard A. , Jr; REPT. NO. HumRRO-TR-74-16 CONTRACT: DAHC19-73-C-0004 PROJ: DA-2-Q-062107-A-745 TASK: 2-Q-062107-A-74500 DESCRIPTIVE NOTE: JUN 74

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: *Army training, *Training devices, Assessment, Audiovisual aids, Achievement tests, Correlation techniques, Learning, Motivation, Performance(Human), Test methods

3

emphasis, ongoing training programs, verbal ability, and uneven quality and distribution of certain TEC (TEC) as a means of increasing the Military Occupational Specialty (MOS) proficiency of Army personnel. TEC (utilizing sound/slide as the basic media for 56 lessons) was implemented by the Combat Arms Training Board. Training The project was intended primarily to evaluate the effectiveness of a Training Extension Course Infantryman) was developed by various departments within the U.S. Army Infantry School and Units. Among the major factors influencing the distributed to Active Army and National Guard material relevant to MOS 11840 (Light Weapons outcome of the TEC evaluation were: command Evaluation test area. (Modified author essons within a particular MOS 11840

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ZOMOZ DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

)- 783 810 5/9 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF AD- 783 810

Predictors of Academic Success of Graduate Students in the Communications Management Curriculum of the U.S. Naval Postgraduate School.

3

Cook, Jon Leslie; DESCRIPTIVE NOTE: Master's thesis, 95P

UNCLASSIFIED REPORT

Computer programming, Predictions, Questionnaires, *Students, *Graduates, *Personnel selection, Management training, Aptitudes, Achievement tests, Performance(Human), DESCRIPTORS:

IDENTIFIERS: Communications management

33

conducted using a specially constructed biographical questionnaire, the Strong Vocational Interest o variables selected for predicting academic success were: third and fourth year undergraduate gradepoint averages, undergraduate major in engineering A study of communications management students was criteria, academic performance and satisfaction, undergraduate academic performance to develop a procedure for selecting U.S. naval officers for the Communications Management curriculum at the facilitate the use of the method developed. The report also summarizes the relationship to two (yes or no), and graduate of the U.S. Navai Academy (yes or no). Tables are presented to all the instruments and information used and recommends the direction of future research Blank, the Graduate Record Examination and U.S. Naval Postgraduate School. The Modified author abstract)

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD- 768 376

The Stratfield Adaptive Computerized Ability Test.

3

Weiss, David J. ; DESCRIPTIVE NOTE: Research rept., 49P RR-73-3

N00014-67-A-0113-0029 REPT. NO. CONTRACT:

PROJ: NR-150-343

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*ACHIEVEMENT TESTS, COMPUTERS),
PSYCHOLOGICAL TESTS, TEST CONSTRUCTION(PSYCHOLOGY),
OPERATIONAL READINESS

IDENTIFIERS: *ABILITIES

3 described as a strategy for tailoring an ability test to individual differences in testee ability.

Stradaptive test administration is controlled by a time-shared computer system. The rationale of the method is described as it derives from Binet's strategy of ability test administration and findings implications of individual differences in consistency of test responses within the stradaptive test record. Implications of additional data derived from stradaptive test response records are considered and are considered include the differential entry point, The essential elements of stradaptive testing which concerning peaked tests from modern test theory. stradaptive testing are presented and discussed. branching rules, and individualized termination A number of examples of the results of live criteria. Different methods of scoring the stradaptive test are discussed, as are the Thestratified adaptive (stradaptive) is related to other psychometric concepts. Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ARLINGTON VA

3 Effectiveness of Selection and Classification festing.

DESCRIPTIVE NOTE: Research rept.,

Maier, Milton H. ; Fuchs, 58P Edmund F. : SEP

REPT. NO. ARI-RR-1179 PROJ: RDT/E-2-Q-062106-A-722

UNCLASSIFIED REPORT

3 (*PERFORMANCE(HUMAN), EFFECTIVENESS), PSYCHOLOGICAL
TESTS, ANALYSIS, CLASSIFICATION, PREDICTIONS,
RELIABILITY, SELECTION, MILITARY PSYCHOLOGY,
PERFORMANCE(HUMAN), ACHIEVEMENT TESTS
IDENTIFIERS: ARMY CLASSIFICATION BATTERY, ARMED FORCES
QUALIFICATION TEST, PERSONNEL SELECTION,
QUALIFICATIONS, VALIDATION, ABILITIES, PERSONNEL
SCREENING TESTS (* APTITUDE TESTS, * ARMY PERSONNEL) , DESCRIPTORS:

3

3 ob training success and the suitability of the tests performance is more satisfactory than job ratings for present publication addresses the value of selection and ratings of job performance reveals that training Army's enlisted personnel system are described; the of measures of performance in job training programs and classification testing programs in relation to content and method, and utilization on the job are the validity of the tests is established. Analysis whites. A general criticism of tests, particularly Analysis supports the usefulness of tests in the Army's personnel systems despite changing concepts Army personnel managers have a continuing need to select, classify, and assign to training and jobs probed; and the methodology is explained by which relation between test scores and other indexes of predict performance in training programs and the large numbers of men who enter the service. The relationships between testing program, training success are examined separately for Negroes and for subgroups of the manpower available to the evaluating test effectiveness. How well tests military tests, has arisen in recent years. Army. The various testing programs in the in the Army's mission.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 763 705 5/9
AIR FORCE INST OF TECH WRIGHT-PATTERSON FB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Effect of Instructor Military Rank on Learning and Perception of Basic Airmen Taught through the Medium of Television.

DESCRIPTIVE NOTE: Technical rept.,
MAY 73 139P Calkins, Ronald R.
REPT. NO. AU-AFIT-SL-3-73

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE PERSONNEL, *LEARNING),
(*INSTRUCTORS, IMPACT), (*PERCEPTION(PSYCHOLOGY), AIR
FORCE PERSONNEL), TELEVISION DISPLAY SYSTEMS, TEACHING
METHODS, ANALYSIS OF VARIANCE, THEORY, SOCIAL
PSYCHOLOGY, ACHIEVEMENT TESTS, STATISTICAL DATA (U)
IDENTIFIERS: MILITARY RANK (U)

The purpose of the study was to determine whether learning scores and perceptual indicates of United States Air Force basic airmen would be affected by utilizing educational television instructors of different military rank.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7 AD- 760 900 5/10 DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA

Psychological Tests. Volume I. A. Achievement Tests. B. Psychomotor Tests.

Tests. DESCRIPTIVE NOTE: Report bibliography Jan 48-Jul 72.

3

UNCLASSIFIED REPORT

73 263P DDC-TAS-73-30-1

JUN 73

3

REPT. NO.

SUPPLEMENTARY NDTE: See also Volume 2, AD-760 910 and Volume 3, AD-760 920.

DESCRIPTORS: (*ACHIEVEMENT TESTS, *BIBLIOGRAPHIES), (*PSYCHOMOTOR TESTS, BIBLIOGRAPHIES), PERFORMANCE(HUMAN), REACTION(PSYCHOLOGY), ATTITUDES(PSYCHOLOGY), MOTIVATION

3

The annotated references contain information pertinent to motivation and evaluation of personnel by selective motor learning, and the non-intellectual tests for measurements of ability and performance. Each part includes indexes to corporate authormonitoring agency, and subject. (Author)

PAGE 18

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

AIR FORCE HUMAN RESOURCES LAB ALEXANDRIA VA MANPOWER DEVELOPMENT DIV AD- 752 623

Prediction of Participation and Achievement in the United States Armed Forces Institute (USAFI) General Educational Development (GED) Program,

REPT. NO. AFHRL/MO-TRM-23
PROJ: AF-4499

MONITOR: DASD/MRA MR-72-2

UNCLASSIFIED REPORT

FESCRIPTORS: (*EDUCATION, *MILITARY PERSONNEL), ACHIEVEMENT TESTS, PREDICTIONS, IDENTIFICATION, DESCRIPTORS: POPULATION

IDENTIFIERS: DEMOGRAPHY

33

3 Discriminant function analyses were used to predict groups (non-participants and non-achievers) could be identified on the basis of demographic characteristics with a high degree of confidence. participation and achievement in the USAF1 GED program. It was found that members of critical Author

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

ARMY BEHAVIOR AND SYSTEMS RESEARCH LAB ARLINGTON VA Attrition in Ordnance School Courses. AD- 751 781

3

DESCRIPTIVE NOTE: Technical research note, Maier, Milion H. : SEP 72 47P Maier REPT. NO. BESRL-TRN-231 PROJ: RDT/E-2-Q-062106-A-722

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UNCLASSIFIED REPORT

ORDNANCE. DESCRIPTORS: (*ATTRITION, *ARMY PERSONNEL), ORDNAN, PERFORMANCE(HUMAN), ARMY TRAINING, APTITUDE TESTS, ACHIEVEMENT TESTS, MAINTENANCE PERSONNEL, PREDICTIONS

.

3

The report deals with the problems of attrition at the Army Ordnance School and reports on a segment of a broader research effort to find ways of reducing attrition among ordnance trainees. Scores on the ACB (Army Classification Battery) predictors and written and performance tests given during three Ordnance courses were subjected to

each reporting period in the courses were analyzed in relation to each other, to final course grade, and to the expected degree of effectiveness as predictors of analyses to attempt to account for failure to complete training satisfactorily. Specific objectives of the analysis were to determine failure rates during the course, consistency of grades at different reporting periods, and consistency of measured aptitudes and course performance. The on written and performance tests given at the end of Results of the analyses showed that ACB tests had trainee performance (correlation coefficients in the .50's and .60's). (Author) three courses selected (because of high failure during and at end of course were ascertained. rates) for analysis were: Machinist (44E), Small Arms Repair (45B), and Fuel and Electrical System Repair (63G). Scores ACB test scores. Failure rates on the test

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY A Model for Psychometrically Distinguishing Aptitude from Ability. AD- 751 030

DESCRIPTIVE NOTE: Technical rept., JUL 72 29P Whitely, Susan E. ; Dawis, Rene V. :

: N00014-68-A-0141-0003 PROJ: NR-151-323 3007 REPT. NO. CONTRACT

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, CULTURE), (*ACHIEVEMENT TESTS, LEARNING), ACCURACY, ANALYSIS OF VARIANCE IDENTIFIERS: *ABILITIES

3 It is now widely agreed that current ability measures reflect a complex interaction of environment with genetic potential. This leads to a basic measurement problem since persons with the same measured ability may vary widely in potential due to non-equivalent learning opportunities. The purpose of the paper is to present a model which may hold analyzed according to the model to illustrate how some promise in psychometrically distinguishing some of the practical problems may be solved. (potential). Data on a simple ability are ability (current status) from aptitude (Author)

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL AD- 749 883

Mathematical Considerations about the Effects of Guessing on Test Variance,

3

Koplyay, Janos B. ; Elton, John H. ;Gott,C. Deene ; PROJ: AF-6323 TASK: 632305

MONITOR: AFHRL

UNCLASSIFIED REPORT

TR-72-21

DESCRIPTORS: (*ACHIEVEMENT TESTS, ANALYSIS OF VARIANCE),
PROBABILITY, CORRECTIONS
IDENTIFIERS: GUESSING

The relationship between true ability

hypothesis of a moderate functional relationship, the observed and true test variances were about the same, relationship, observed test variance was much higher hypotheses were treated mathematically: there is no functional relationship between true ability and relationship, true ability variance was found to be higher than the observed variance, suggesting that much), suggesting that approximately half of the observed test variance was due to guessing. The paper considered the appropriateness of correction for guessing dependent upon the assumed functional relationship between true ability and successful answer) and the effects of guessing upon observed (operationally defined as the number of items for which the examinee actually knew the correct quessing success; there is a moderate functional correction for guessing is advisable. Under the relationship between true ability and guessing relationship between true ability and guessing than the true variance (approximately twice as success. Under the hypothesis of no functional implying no need for correction for guessing. test variance was investigated. Three basic Under the assumption of a strong functional Success; and there is a strong functional Quessing. (Author)

PAGE

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counterparts. (Author)

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ZOM07 SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

APPLIED PSYCHOLOGICAL SERVICES WAYNE PA

Training Evaluation and Student Achievement Measurement: A Review of the Literature Bergman, Brian A. ; Siegel, CONTRACT: F41609-71-C-0025 65P Arthur I. ; CAN

PROJ: AF-1121 TASK: 112103

AFHRL MONITOR:

TR-72-3

UNCLASSIFIED REPORT

DESCRIPTORS: (*TRAINING, *REVIEWS), (*STUDENTS, *ACHIEVEMENT TESTS), TEACHING METHODS, LEARNING MOTIVATION, TRAINING DEVICES IDENTIFIERS: EVALUATION

33

3 learning styles, motivation, and moderator variables, on the other hand, these and similar considerations are also included. (Author) impacted heavily on recent trends are also included. training evaluation and student measurement, on the The current training evaluation and student measurement literature is reviewed. The emphasis is on studies which have been reported in the last ten years, although earlier studies which have one hand, and such topics as statistical methods, methods for course development, training methods, Because of the obvious interaction between both

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

- 744 781 5/10 TEXAS CHRISTIAN UNIV FORT WORTH INST FOR THE STUDY OF COGNITIVE SYSTEMS

Some Aspects of Individual Differences in Schematic Concept Formation.

3

3

Lane, Sam H. : Evans, Selby DESCRIPTIVE NOTE: Technical memo., 38P MAR 72

CONTRACT: DAADOS-68-C-0176 PROJ: DA-1-T-061102-8-1-A, THEMIS-367

UNCLASSIFIED REPORT

TM-9-72

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MONITOR:

DESCRIPTORS: (*LEARNING, ANALYSIS OF VARIANCE),
PERSONALITY, ACHIEVEMENT TESTS, ECONOMICS
IDENTIFIERS: THEMIS PROJECT, *CONCEPT FORMATION DESCRIPTORS:

33

A series of studies is presented in an initial

individual differences in schematic concept formation (SCF). The first two studies were concerned that some aspects of classroom behavior, as measured by teacher ratings, were related to SCF, but not to I.Q. With regard to the variable of race, preliminary data suggests that the SCF performance of lower socio-economic class black sixth-graders is attempt to address issues thought to be related to personality, intelligence and race. With regard to SCF performance was found to be moderately related primarily with task development. It was found that personality, no relationship was found between SCF individual differences in learning. The remainder a task which required the subject to distinguish performance and performance on Witkin's Embedded to traditional measures of classroom performance pattern from noise demonstrated relatively clear traditional individual differences variables of comparable to that of their white, middle-class of the studies sought to explore the potential relationship between SCF performance and the [I.Q. and math achievement). It also appeared Figures Test. Consistent with previous work,

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ZOM07 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING AD- 739 034 CENTER

Success Prediction Equation for the Intern Training Center.

3

Pohl, Leonard S. ; Research rept., 83P DESCRIPTIVE NOTE:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.

DESCRIPTORS: (*ACHIEVEMENT TESTS, PREDICTIONS), STUDENTS, REGRESSION ANALYSIS, THESES, PERSONNEL MANAGEMENT DESCRIPTORS:

3

grades, Graduate Records Examination scores, and type of undergraduate college terms and cross product terms were also considered. Using a stepwise procedure a final equation using cent of the variance in the predicted variable was Training Center grade point average was developed using a sample of sixty-two trainees from the seven independent variables and explaining 54 per A multiple regression equation predicting Intern Intern Training Center at Red'River Army Depot. Possible predictor variables were taken discriminate effectively between above average obtained. The equation was also found to performers and below average performers. (Author)

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ZOMO2 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF AD- 738 830

The Equivalence of Semantic and Figural Test Presentation of the Same Items.

3

Tinsley, Howard E. A. Technical rept., CONTRACT: NOO14-6E-A-0141-0003 PROJ: NR-151-323 Dawis, Rene' V. : DESCRIPTIVE NOTE:

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*ACHIEVEMENT TESTS, TEST METHODS), (*WORD ASSOCIATION, PERFORMANCE(HUMAN)), (*PICTURES, REACTION(PSYCHOLOGY)), EFFECTIVENESS, CORRELATION TECHNIQUES, STATISTICAL PROCESSES

corresponding 30-item picture analogy test (in which the pictures corresponded to the words in the word analogy test) were administered to 289 Civil Service employees. The equivalence of semantic (word) and figural (picture) test presentation of the same items was determined by comparing the responses of the same subject to the same item. Proportion of correspondent responses greater than chance frequency. Score distributions were practically identical. It was concluded that of the subjects gave correspondent responses with A 30-item multiple-choice word analogy test and (both correct or both wrong) ranged from .69 to .91 with a median of .84. Correlation between semantic and figural parallel test forms can be scores on the two test forms was .86. Over 84% constructed.

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RAND CORP SANTA MONICA CALIF AD- 738 044

MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

5/10

A Comparison on the Rasch Item Probability with Three Common Item Characteristics as

Criteria for Item Selection.

SEARCH CONTROL NO

DOC REPORT BIBLIOGRAPHY

UNCLASSIFIED

Subjective Scaling of Student Performance,

3

Donaldson, Theodore S. P-4596 REPT. NO.

3

DESCRIPTIVE NOTE: Technical rept.,

Dawis, Rene' V. : REPT. NO. TR-3003 CONTRACT: N00014-68-A-0141-0003 PROJ: NR-151-323

UNCLASSIFIED REPORT

DESCRIPTORS: (*STUDENTS, *PERFORMANCE(HUMAN)), (*ACHIEVEMENT TESTS, STUDENTS), SCALE, READING, MATHEMATICS, EDUCATION IDENTIFIERS: INCENTIVE CONTRACTS

33

math and reading improvement, and provide a criterion by which future standaridized tests might be improvements in these skills are generalized to other subjects. Another central issue concerns the validity of the standardized tests contractors now use to evaluate performance in mathematics and reading. The paper presents techniques for psychological scaling of students' schoolwork. They enable measures of the generalization of basic validated. The techniques appear to have great potential for future research in education process. although more research is necessary to develop them reading skills. This raises the question of whether education focus on improving basic mathematics and Most current performance contracting programs in

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within the educational context. (Author)

UNCLASSIFIED REPORT

33 ESCRIPTORS: (*ACHIEVEMENT TESTS, EFFECTIVENESS), (*PERFORMANCE(HUMAN), TEST CONSTRUCTION(PSYCHOLOGY)), STATISTICAL ANALYSIS, ERRORS, PROBABILITY, MATHEMATICAL MODELS, STANDARDS IDENTIFIERS: CRITERIA DESCRIPTORS:

 Ξ Selection of items for analogy tests according to the Rasch item probability of 'goodness of fit' to the model is compared with three connonly used item selection criteria: item discrimination, item difficulty, and item-ability correlation. Word, rejected as criteria was commonly used criteria for choice format were administered to several hundred item probabilities in terms of proportion of items item difficulty. Results also showed the amount of picture, symbol and number analogies in multiplecollege students. Analysis was made at Rasch overlap among the four criteria. 23

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 738 040 5/9
RAND CORP SANTA MONICA CALIF

Project R-3 Allocation of Students Among Groups,

3

Sumner, G. C. REPT. NO. P-4584

UNCLASSIFIED REPORT

3 (*STUDENTS, DISTRIBUTION), ACHIEVEMENT DESCRIPTORS: TESTS, SEX

classroom heterogeneity among the students in the project. Although the description is specific to Project R-3, the method generalizes to a rather flexible range of allocation requirements; this flexibility is also discussed. (Author) The technique provided the means for establishing

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER

Effect of Anxiety, Response Mode, and Subject Matter Familiarity on Achievement in Computer-Assisted Learning.

3

AUG 71 49P Leherissey, Barbara L. O'Neil, Harold F., Ur.; Hansen, Duncan N.; DESCRIPTIVE NOTE: Technical memo., AUG 71 49P Leherissev,

REPT. NO. CAI-TM-41 CONTRACT: N00014-68-A-0494 PROJ: NR-154-280

UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, *ACHIEVEMENT TESTS), (*PROGRAMMED INSTRUCTION, LEARNING), ANXIETY, HEART, DISEASES
IDENTIFIERS: *COMPUTER AIDED INSTRUCTION

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reading groups performed significantly better than covert and multiple choice groups on technical but not familiar materials. However, the constructed response group had higher levels of state anxiety and longer learning times than other response mode Effects of trait and state anxiety levels (low, medium, high) and response modes (reading, covert, modified multiple choice, constructed response) on posttest achievement for familiar and technical materials dealing with heart disease were investigated. Learning materials were presented to 148 subjects via computer-assisted instruction. High trait anxiety was associated with high state anxiety for all groups. Constructed response and groups. (Author)

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SEARCH CONTROL NO. ZOMOT DOC REPORT BIBLIDGRAPHY

UNCLASSIFIED

AMHERST COLL MASS AD- 732 381

A Theory of Achievement Behavior,

Birney, Robert C. ; Burdick, Marvey ;Teevan,Robert C. ; CONTRACT: Nonr-2309(02) 31P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Smith College, Northampton, Mass. and State University of New York, Albany.

33 DESCRIPTORS: (*BEHAVIOR, THEORY), (*PERFORMANCE(HUMAN), ANALYSIS), PSYCHOMETRICS, PERSONALITY, PROBABILITY, ACHIEVEMENT TESTS, MOTIVATION, ANALYSIS OF VARIANCE (U. IDENTIFIERS: RISK TAKING, SELF EVALUATION

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

731 248 5/9 RAND CORP SANTA MONICA CALIF AD- 731 248

The RAND/HEW Study of Performance Contracting in Education,

3

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Hall, George R. ; Stucker, 12P 71 NAO

P-4558 James P.

HEW-05-70-156 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, *CONTRACTS),
PERFORMANCE(HUMAN), ACHIEVEMENT TESTS, STUDENTS,
INSTRUCTORS

3

The performance contracting method was first applied to the education of public school students late in 1969. The ensuing publicity has generated widespread interest in and experimentation with this student achievement, and the involvement of private, profit-oriented firms in classroom activities, have made performance contracting one of the most discussed and most controversial innovations in technique. Payment for services on the basis of American education. The report reviews progress in current programs using this method. (Author)

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SEARCH CONTROL NO.

DDC REPORT BIBLIOGRAPHY

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB

Combined Effects of Noise and Vibration on Mental Performance.

Harris, C. Stanley ; Sommer, DESCRIPTIVE NOTE: Final rept. Sep 70-Feb 71 20P Henry C. ;

REPT. NO. AMRL-TR-70-21 PROJ: AF-7231

UNCLASSIFIED REPORT

33 ESCRIPTORS: (*STRESS(PSYCHOLOGY), PERFORMANCE(HUMAN)), (*NOISE, STRESS(PSYCHOLOGY)), (*VIBRATION, STRESS(PSYCHOLOGY)), PERFORMANCE TESTS, ACHIEVEMENT TESTS, MEMORY, INTENSITY IDENTIFIERS: MENTAL PERFORMANCE DESCRIPTORS:

 $\widehat{\Xi}$ decrement in performance than either stressor slone. Vibration at 5 Hz was a more sensitive frequency noise. Subsequently these same vibration conditions were presented with 107 dB noise. High intensity task performance while the highest level of noise (110 dB) combined with vibration to produce a significant reduction in the number of correct responses. In experiment 2, the second group of subjects used in experiment 1 was tested during exposure to the following conditions: no vibration (control), vibration at 5 Hz - 0.25g, 7 Hz - 0.30g, and 11 Hz - 0.50g, all combined with 80 dB subtraction task during exposure to four different for mental subtraction performance than 7Hz and 11 Mz when the three frequencies were presented in combined effects of noise and vibration on mental performance. In experiment 1, ten subjects were tested on a combination short term memory and noise and vibration combined to produce a greater intensities of broadband noise. Another group of vertical vibration at 5Hz. Noise alone, and vibration with low level noise (80 dB and 90 dB re 0.0002 dyne/sq cm) had no adverse effects on Iwo experiments were conducted to determine the ten subjects was tested using the same noise intensities in combination with 0.25g (peak) conjunction with high inconsity noise. (Author)

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIDGRAPHY

WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY

Expectancy Theory Predictions of Academic Performance and Satisfaction.

3

DESCRIPTIVE NOTE: Technical rept.,

 $\widehat{\Xi}$

REPT. NO. TR-71-29 CONTRACT: N00014-67-A-0103-0012, N00014-67-A-0103-Mitchell, Terence R. Nebeker, Delbert M. ; 386 SEP 71

PROJ: NR-177-472, NR-177-473 0013

UNCLASSIFIED REPORT

(*PERFORMANCE(HUMAN), *MATHEMATICAL (*ACHIEVEMENT TESTS, *STUDENTS), THEORY, DESCRIPTORS: (*PERFORMANCE(HUM)
PREDICTION), (*ACHIEVEMENT TES'
MATHEMATICAL MODELS
IDENTIFIERS: *JOB SATISFACTION

33

satisfaction are related to the degree to which the behavior (or job) is seen as leading to various outcomes weighted (multiplicatively) by the not. Including extensions of the effort model by adding others' expectations and perceived influence evaluation of these outcomes. The job effort model was supported while the job satisfaction model was increased the predictability of effort. The job performance model suggests that effort and ability variables was found to best predict performance. The extensions and modifications of the theory are combine to predict performance. An additive rather than a multiplicative combination of these two Expectancy theory models were used to predict the satisfaction, effort and performance of college students. This theory suggests that effort and

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discussed in detail. (Author)

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIDGRAPHY

1- 728 027 5/9 5/10
NAVAL PERSONNEL AND TRAINING RESEARCH LAY SAN DIEGO
CALIF AD- 728 027

A Comparison of the Performance of Fleet and Recruit Input to Class 'A' Schools.

3

DESCRIPTIVE NOTE: Technical bulletin, JUL 71 14P Thomas, Patricia J. JUL 71 14P REPT. NO. STB-72-1 PROJ: NR-521-005

UNCLASSIFIED REPORT

SECRIPTORS: (*NAVAL TRAINING, PERFORMANCE(HUMAN)), (*ACHIEVEMENT TESTS, EFFECTIVENESS), ANALYSIS OF VARIANCE, EDUCATION, NAVAL PERSONNEL, RECRUITING, STUDENTS, FLEETS, FACTOR ANALYSIS, CORRELATION IDENTIFIERS: NAVY CLASS A SCHOOLS DESCRIPTORS: **TECHNIQUES**

33

study was conducted to determine whether BTB Battery (BTB) are usually performed with Class 'A' school samples to evaluate the effectiveness of the tests as school selectors. Source of student input is rarely a research variable and the same BTB cutting scores used in recruit classification Validity studies of the Navy Basic Test

predictors of the school performance of recruit input than of fleet input. In addition, students from the validities differ for these two groups and whether test composites appropriate for recruits are valid for fleet applicants. The analysis was based on 130,000 grade cards, which were divided into recruit and fleet input to 82 schools. Validities of six BTB tests and four selection composites were was concluded that factors other than those measured fleet generally entered with lower selection scores computed for each sample. Differences between mean were tested for significance. Significant differences between fleet and recruit school input were found for all variables tested. In nine of and graduated with higher final school grades. It selector scores, mean final grades, an validities the ten comparisons the tests were more valid by the BTB are having a greater effect on the

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ZOMOZ SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N 5/10 AD- 727 921

8 Maximizing the Validity of a Test Battery a Function of Relative Test Lengths for a Fixed Total Testing Time.

3

DESCRIPTIVE NOTE: Technical rept., JAN 67 22P Woodbury, Max A.; Novick,

Melvin R.; EPT. NO. RB-67-3 ANTRACT: NONE-4866(00), PHS-FR-5405 CONTRACT: Non-48 PROJ: NR-042-249

UNCLASSIFIED REPORT

Availability: Pub. in Jnl. of Mathematical Psychology, v5 n2 p242-259 1968. SUPPLEMENTARY NOTE: Prepared in cooperation with Duke Univ. Medical Center, Durham, N. C.

33 CONSTRUCTION(PSYCHOLOGY)), TIME, CORRELATION TECHNIQUES, ALGORITHMS, RELIABILITY, REGRESSION ANALYSIS, OPTIMIZATION (IDENTIFIERS: VALIDITY (DESCRIPTORS: (*ACHIEVEMENT TESTS, *TEST

3 An explicit solution is given to the problem of assigning relative lengths to the tests of a battery and to determining the corresponding regression weights so as to maximize the multiple correlation with a specified criterion when the total testing time is fixed. Uniqueness of the obtained solution is proven. A solution algorithm is given for cases in which some of the testing times are zero. Some numerical examples are given. (Author)

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school performance of students from the fleet.

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ZOMO7 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO AD- 726 690 CALIF

Effects of Establishing a Conceptualization Context for Learning Monitoring and Evaluating Tasks.

3

DESCRIPTIVE NOTE: Final rept., JUL 71 21P McCutcyeon, Richard E. Jr.; Brock, John F.; REPT. NO. SRR-72-4 PROJ: PF39.522.004.01.62

UNCLASSIFIED REPORT

Ξ DESCRIPTORS: (*NAVAL TRAINING, COMBAT INFORMATION CENTERS), MONITORS, LEARNING, DECISION MAKING

performance on classroom monitoring exercises. The function of the combat information center watch officer (CICWO) course is primarily to train CICWOs in monitoring and evaluating. Two versions of 'Concepts of CIC' were administered to two groups of students in the course. As compared to a control group which did not receive the program, it was found that administration of the conceptualization program at the beginning of the classroom monitoring exercises in terms of both The research evaluates the effectiveness of a Concepts of CIC program in improving course significantly improved performance on decision and error detection scores. (Author)

3

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SEARCH CONTROL NO. ZOMO7 726 525 5/9 RUTGERS - THE STATE UNIV NEW BRUNSWICK N DDC REPORT BIBLIDGRAPHY AD- 726 525

A Study of the Effects of Shift Operations on Student Achievement in Electronics

Training.

3

Johnson, Frank F. , Jr; DESCRIPTIVE NOTE: Doctoral thesis, 122P 12 NOO

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*TRAINING, *SCHEDULING), (*STUDENTS, TRAINING), ELECTRONICS, ACHIEVEMENT TESTS, THESES

Although it was demonstrated that the students on night-shift training did not perform as well as did their fellow students on other shifts, empirical evidence indicated that multi-shift training was successful. The study suggests that the undesirable features of night-shift training can be mitigated by assigning students to the shift that would take advantage of their individual strengths. Other conclusions suggest that the careful management of facilities would further increase learning efficiency by insuring good rest and study facilities as well as providing a more stimulating classroom environment. (Author)

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28

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY - 723 025 19/7 16/4 14/2 ARMY TEST AND EVALUATION COMMAND ABERDEEN PROVING GROUND

Close Support Rockets and Missiles.

3

DESCRIPTIVE NOTE: Materiel test procedure. MAR 71 18P REPT. NO. MTP-4-2-015 PROJ: AMCR-310-6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Interim Pamphlet 40-

3 (*ARTILLERY ROCKETS, TEST METHODS), (*GUIDED MISSILES, TEST METHODS), SURFACE TO SURFACE MISSILES, SURFACE TO AIR MISSILES, SELIABILITY, MAINTENANCE, SAFETY, HANDLING, NOISE, CLOSE SUPPORT, GASES, TOXICITY, (LOZES(ORDNANCE) DESCRIPTORS: (+ANTITANK AMMUNITION, TEST METHODS)

IDENTIFIERS: COMMODITY ENGINEERING TEST PROCEDURES

3

 $\widehat{\Xi}$ complete round including environmental and rough handling effects to be determined. Other points covered are noise and blast, toxic gas, vulnerability and missiles, such as: artillery rockets up to approximately 6 inches in diameter and shoulder-held, to bullets, reliability, maintenance evaluation, and bazooka-type, antitank rockets; and antitank guided missiles or shoulder-fired, surface-to-air guided functioning tests for Components (warhead, fuze, and motor) and outlines performance tests for the testing launchers, guidance systems, and shaped charge warheads. The procedure describes missiles. It does not include procedures for The Materiel Test Procedure provides human factors evaluation. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER AD- 721 071

Outcomes of a Collegiate Science Learning A Study of the Cognitive and Affective Garre.

3

Harvey, William L. ; DESCRIPTIVE NOTE: Technical rept.,

NOV 70 165P Ha . NO. CAI-TR-17 RACT: NO0014-68-A-0494 CONTRACT: N00014-PROJ: NR-154-280 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*TEACHING METHODS, *GAME THEORY), ACHIEVEMENT TESTS, STUDENTS, INSTRUCTORS, ATTITUDES(PSYCHOLOGY), PREDICTIONS IDENTIFIERS: COGNITION

33

toward science, general confidence in mastery of science, general achievement on science, and mastery of specific scientific concepts. The usefulness of background and personality variables in predicting effect of playing a science education game on the cognitive and affective processes of black graduate students at Florida A. and M. University. The effects measured were changes in attitude success in the two treatments was also investigated. The objective of the study was to determine the (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

ZOMO2 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

UNCLASSIFIED

1- 717 230 5/10 ARMY MEDICAL RESEARCH LAB FORT KNOX KY AD- 717 230

Coloring Naming Interference in Monolinguals and Bilinguals with matching Interfering and

 $\widehat{\Xi}$

70 36P Sullivan, John A. ; CNA-Professional Paper-42

UNCLASSIFIED REPORT

Measured Mental Ability, Service School Achievement and Performance,

CENTER FOR NAVAL ANALYSES ARLINGTON VA

8/8

DESCRIPTIVE NOTE: Progress rept., naming Languages.

3

3 DESCRIPTORS: (*ACHIEVEMENT TESTS, WORD ASSOCIATION), (*LANGUAGE, INTERFERENCE), COLORS, ENGLISH LANGUAGE, SPAIN, READING IDENTIFIERS: BILINGUALISM, PSYCHOLINGUISTICS, SPANISH

quickly as possible when the color stimuli were color names written either in English or a number of Spanish color names, English color names or control Xs. Color naming was slowest when the naming language of the color names was the same although considerable interference also occurred when they differed. The pattern of interference in these conditions was related to S's relative proficiency in Spanish and English. other languages. Color naming was found to be slowest for English words and increased in speed as the foreign color names became less similar to their English equivalents. In a second experiment, Spanish-English bilinguals named colors in both languages with color stimuli that were either English-speaking monolinguals named colors as

3

UNCLASSIFIED REPORT REPT. NO. USAMRL-908

Dyer, Frederick N. :

15P

3 LANGUAGE

3

DESCRIPTORS: (*APTITUDE TESTS, EFFECTIVENESS), (*ACHIEVEMENT TESTS, EFFECTIVENESS), (*PERFORMANCE(HUMAN), EFFECTIVENESS), SELECTION, PREDICTIONS, CORRELATION TECHNIQUES, MILITARY PERSONNEL,

PERFORMANCE(HUMAN)
IDENTIFIERS: *ARKED FORCES QUALIFICATION TEST,
PERSONNEL SCREENING TESTS

indicate a higher productivity of individuals to the to screen draftees and enlistment applicants. This procedure assumes that higher scores on the AFQT Armed Forces. The paper examines some of the the Armed Forces Qualification Test (AFQT) Since World War II the Services have used evidence for this assumption. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

UNCLASSIFIED

STATE UNIV OF NEW YORK ALBANY AD- 698 035

CHROMATIC VS ACHROMATIC PICTURES IN THE SCORING OF NEED FOR ACHIEVEMENT AND THE HOSTILE PRESS MEASURE OF FEAR OF FAILURE.

DESCRIPTIVE NOTE: Technical rept.,
DEC 69 25P Teevan, Richard C. : Ruoff,
Judith L. : Poffenberger, William W. ;

CONTRACT: N00014-70-C-0021

PROJ: NR-171-803

UNCLASSIFIED REPORT

3 3 ACHIEVEMENT TESTS, STUDENTS, PICTURES, COLORS, PHOTOGRAPHS, NAVAL RESEARCH, STATISTICAL ANALYSIS, MALES, EMALES, EMOTIONS, WORD ASSOCIATION IDENTIFIERS: ACHROMATIC PICTURES, FEAR OF FAILURE, APPERCEPTION TESTS. (*PROJECTIVE TECHNIQUES, MOTIVATION), DESCRIPTORS:

3 both sexes was used. Each story was scored for need for achievement and hostile press. A word count was also made. In agreement with the findings of related studies, the results were studied for evidence that there was a difference in either score depending upon whither or not colored or black and white pictures were used as stimuli. on the scoring of TATS. The stories written in response to a series of six colored pictures were compared to the same pictures presented in black and white. A sample of 107 high school students of A study was designed to examine the effect of color (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

i- 673 967 5/10 WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY AD- 673 967

3 A COMPARISON OF FOUR MODELS FOR MAKING PREDICTIONS ACROSS INSTITUTIONS.

Cory, Charles Henry : CONTRACT: Nonr-477(33)

UNCLASSIFIED REPORT

DESCRIPTORS: (*ACHIEVEMENT TESTS, *CORRELATION
TECHNIQUES), LEARNING, PERFORMANCE(HUMAN), UNIVERSITIES,
MATHEMATICAL PREDICTION, MATHEMATICAL MODELS, REGRESSION
ANALYSIS, SAMPLING, STUDENTS, THESES

3 colleges and predictor data classified according to the time at which data were collected, either in high that the model most sensitive to these differences is the one simplest to apply both in the development and utilization of the prediction equation is an severely attenuated in the past whenever measurement, either of the predictors or of the criterion individuals for whom predictions are made but rather to differences among sources of those measures. The present research has adapted three models for correcting steeper variations to an empirical test, the first attempt to make such evaluative comparisons. The empirical test of the models subgroups model, yielded improved predictions across involved criterion data from six different community performance itself, has been subject to systematic study replicated across seven criterion subject matter areas. Data for one-half the subjects were used to develop prediction equations under the several models and data for the remaining half to cross-validate each of the prediction equations. On cross-validation, only one model, the within The usefulness of prediction equations has been the range of criterion activities. The finding school or at college enrollment. The empirical variation related not to differences among mportant one. (Author)

AD- 673 316 6/16 TUFTS UNIV MEDFORD MASS INST FOR PSYCHOLOGICAL RESEARCH

 $\widehat{\Xi}$ THE EFFECT OF MAGNIFICATION ON VISUAL TASKS. II. PERCEPTUAL INTEGRATION,

Crook, Mason N. ; Hanson, John A. ; Raben, Margaret W. ; Wargo, Michael SEP

CONTRACT: Nonr-494(17)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 1, AD-673 315.

33 (+VISUAL PERCEPTION, ACHIEVEMENT TESTS), NAVAL RESEARCH, IDENTIFICATION, PATTERN RECOGNITION, SYMBOLS, ATTENUATION, FRAGMENTATION, VOCABULARY, PERFORMANCE(HUMAN), TEST EQUIPMENT, TEST METHODS, EFFECTIVENESS, ANALYSIS, PHOTOINTERPRETATION, DESCRIPTORS:

DENTIFIERS: MAGNIFICATION, SIZES(DIMENSIONS)

3 conjunction with those presented in a previous report on still other tasks, demonstrate that the effect of fragment strokes, words with intact strokes being used as controls, and (b) a task requiring estimation of the relative numerousness of two types of symbols in an array, was investigated.

Magnification was found (1) to have no effect on recognition of words with intact strokes, (2) to impair recognition of words with intact strokes, (2) magnification may vary with the task on the basis of visual-perceptual factors alone, when instrumental strokes, and (3) to improve performance on the factors are so far as possible ruled out. The effect of magnification on (a) a task estimation of symbols. These results, in (Author)

SEARCH CONTROL NO. ZOMOT DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF AD- 659 525

EVALUATION AND RECOGNITION) TECHNIQUES USING NCAT (NAVY COLLEGE APTITUDE TEST) AND BTB-7 (BASIC TEST BATTERY 7) DATA TO FORECAST SCHOOL PERFORMANCE. INVESTIGATION OF CAPER (COMPUTER AIDED PATTERN

3

Summary rept. 14 Jan 67-14 Oct 67, Mangelsdorf, John E. ; Specht, Donald F. : Klokow, Richard E. : LMSC-A908290 DESCRIPTIVE NOTE: REPT. NO.

UNCLASSIFIED REPORT

N00014-67-C-0253

CONTRACT:

DESCRIPTORS: (*NAVAL PERSONNEL, SELECTION), CLASSIFICATION, PATTERN RECOGNITION, APTITUDE TESTS, PERFORMANCE(HUMAN), ACHIEVEMENT TESTS, COMPUTERS, PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES

3

was developed and applied to the BTB-7 data base. It shows that the results obtained by both linear and nonlinear techniques approach the predicted upper results obtained from multiple regression techniques. methods: this finding is attributed to the absence of of the classification of Navy personnel by means of pattern recognition techniques, employing as a data base the test and criterion scores for 1962 and 1963 NROTC Navy College Aptitude Test (NCAT) records and the Navy service schools Basic Test Battery 7 (BTB-7) records. Forecasts Essentially identical results were obtained by both selection of students for service school assignment classification accuracy--provides a technique that The purpose of the research was to conduct a study of student grade point average and pass/fail by CAPER techniques were made and compared with the earlier investigators that marked improvement in could be obtained by using all BTB scores rather However, corroboration was made of a finding by than one or two. A theorem--upper bound on nonlinear relationships in the data bases. bound. (Author)

PAGE

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DITTO CALIF AD- 659 289

 Ξ VALIDATION OF THE DIAL AND TABLE READING TEST AND PATTERN COMPREHENSION TEST.

66 14P Swanson, Leonard; NPRA-STB-67-14 DESCRIPTIVE NOTE: Technical bull., PROJ: PF016050101 DEC 66 REPT. NO. NPR

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*MILITARY PERSONNEL, SELECTION),
(*PSYCHOLOGICAL TESTS, EFFECTIVENESS), NAVAL PERSONNEL,
ACHIEVEMENT TESTS, APTITUDE TESTS, PERFORMANCE(HUMAN),
CORRELATION TECHNIQUES, READING, CLASSIFICATION
(U)
IDENTIFIERS: PERSONNEL SCREENING TESTS

classification, were validated against school grades in 12 Navy Class 'A' schools. The schools A Dial and Table Reading Test and a Pattern Comprehension Test, both of which were developed and used by the Air Force for enlisted were chosen to represent a cross section of Navy training. The new tests did not add sufficient validity to the Navy Basic Battery now used for selection for the schools to warrant adoption. (Author)

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ZOMO2 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

8/6 MICHIGAN UNIV ANN ARBOR EFFECTS OF RACE OF TESTER, APPROVAL-DISAPPROVAL AND NEED ON NEGRO CHILDREN'S LEARNING.

3

Katz, Irwin ; Henchy, Thomas Technical rept., 14P DESCRIPTIVE NOTE: APR 67

Allen, Harvey : REPT. NO. TR-2

N00014-67-A-0181 CONTRACT:

UNCLASSIFIED REPORT

Prepared in cooperation with New SUPPLEMENTARY NOTE: York Univ., N. Y.

DESCRIPTORS: (*LEARNING, *ATTITUDES(PSYCHOLOGY)), CULTURE, MOTIVATION, INSTRUCTORS, STUDENTS, PERCEPTION(PSYCHOLOGY), REACTION(PSYCHOLOGY), IDENTIFIERS: NEGROES ACHIEVEMENT TESTS

33

child's need for approval influenced his reactions to to take into account the need state of the individual child and the racial identity of the adult dispenser of reinforcement. (Author) effects of positive and negative social reinforcement on verbal learning in Negro pupils it is necessary experiment indicates that in order to understand the It was found that northern urban Negro boys of grade school age performed better on a verbal learning task with Negro examiners than with white examiners, and when given approval rather than disapproval. In addition, the strength of the the first two variables in combination. The

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ZOMO2 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

MICHIGAN UNIV ANN ARBOR DEPT OF PSYCHOLOGY

3 SENTENCE LENGTH AND SENTENCE RETENTION IN THE FREE-LEARNING SITUATION,

Martin, Edwin ; Roberts, Kelyn 67

CONTRACT: AF 49(638)-1235 PROJ: 920F-5002 MONITOR: AFOSR 67-2235

Availability: Published in Psychonomics Science v8 n12 p535-6 1967. UNCLASSIFIED REPORT

DESCRIPTORS: (*RECALL, GRAMMARS), (*LEARNING, GRAMMARS) RETENTION(PSYCHOLOGY), SYNTAX, ACHIEVEMENT TESTS (U

3 DU B The hypothesis that sentence length is not a significant factor in sentence recall was tested rejected. The lengths studied were 5, 7, and 9 words. All sentences were of the activeafirmative type. A structural-complexity factor was found to play no role in recall. (Author)

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY)- 658 316 5/10 5/9 9/3
NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF AD- 658 316

A PERFORMANCE-ORIENTED ELECTRONICS TECHNICIAN TRAINING PROGRAM. III. COURSE EVALUATION INSTRUMENTS AND PROCEDURES.

3

Research rept., DESCRIPTIVE NOTE:

Steinemann, John H. Hooprich, Eugene A. ; 35P JUL 67

REPT. NO. NPRA-SRR-68-1 PROJ: PF017033101

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-647 553.

DESCRIPTORS: (*NAVAL PERSONNEL, *NAVAL TRAINING), (*ELECTRONICS, *TECHNICIANS), APTITUDE TESTS, ACHIEVEMENT TESTS, FEEDBACK, ELECTRONIC EQUIPMENT, PERFORMANCE(HUMAN), STATISTICAL FUNCTIONS, MAINTENANCE, COMMUNICATION EQUIPMENT

The report describes the tests and testing techniques employed to fulfill the evaluation requirements of the experimental training course for Electronics Technicians conducted from January 1964 to May 1966 by the Navy Training measures and course achievement criteria, and the relative contribution of written and performance were made of the correlations between precourse evaluative techniques, and data concerning the relationships among several aspects of course achievement. Characteristics of effective Research Laboratory, San Diego. Analyses factors are summarized. (Author)

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UNCLASSIFIED

SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

BUCKNELL UNIV LEWISBURG PA DEPT OF PSYCHOLOGY AD- 650 302

3 THE EFFECTS OF FEAR OF FAILURE ON RISK-TAKING AND PERFORMANCE.

DESCRIPTIVE NOTE: Technical rept., MAR 67 31P Rolf, Jon Erik; Birney,

CONTRACT: Non-3591(01) PROJ: NR-171-803 Robert C. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Univ. of Minnesota, and Amherst College, Mass.

3 DESCRIPTORS: (*PERFORMANCE(HUMAN), MOTIVATION),
BEHAVIOR, PERFORMANCE(HUMAN), PERSONALITY,
QUESTIONNAIRES, PSYCHOLOGICAL TESTS, ANXIETY,
ACHIEVEMENT TESTS, PROJECTIVE TECHNIQUES

3 Three measures of risk-taking and four measures of performance were employed to investigate the effects of fear of failure (FF) on these two variables.

All Ss were required to participate in all tests and seven hypotheses were formulated and examined within the general areas stated above. In the area of risk-taking, it was found that as the subjective failure became more intense, the high FF Ss FF was found to have a debilitating effect on three of the performance tasks employed. The previous finding that nigh FF Ss set wider confirming intervals (CIs) than low FF Ss was also and Performance) were administered in attempts to obtain more direct indices of the effects of FF tended to take fewer and fewer risks. Likewise, motivation in these two areas. Neither questionnaire proved to be as successful as the behavioral measures. (Author) substantiated. Two questionnaires (Risk-Taking

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

GEORGE WASHINGTON UNIV ALEXANDRIA VA HUMAN RESOURCES 5/10 5/9 RESEARCH OFFICE AD- 646 976

DERIVING, SPECIFYING, AND USING INSTRUCTIONAL OBJECTIVES,

3

DEC 66 24P Melching, William H. Ammerman, Harry L. : Whitmore, Paul G. : Cox, John A. :

REPT. NO. HUMRRO professional paper-10-66. CONTRACT: DA-44-188-ARG-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Convention Southwestern Psychological Association (13th), Arlington, Tex., Apr 1966.

DESCRIPTORS: (*TEACHING METHODS, EFFECTIVENESS), PERFORMANCE(HUMAN), LEARNING, ACHIEVEMENT TESTS, EDUCATION, BEHAVIOR, STANDARDS, SYMPOSIA

3

3 The purpose of the symposium was to consider some problems frequently encountered when preparing instructional objectives and to discuss several means by which future efforts at implementation might be facilitated. Topics discussed in this report include: 'In Defense of Instructional Objectives'; 'Some Important Ways in Which Performance Objectives Can Vary'; 'The Objectives'; 'Instructional Objectives and Measuring Success of Instruction. Content Validity of Instructional

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35

PAGE

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 646 305 6/14 5/10
NAVAL SUBMARINE MEDICAL CENTER GROTON CO"N

TEN POINT WEIGHTING WITH THE IBM-805 TEST SCORING MACHINE.

3

DESCRIPTIVE NOTE: Memorandum rept.,
DEC 66 8P Parker, James W.; Auwood,
Joseph A.;
REPT. NO. NSMC-MR-66-18
MONITOR: NAVMED MF022.03.03-9021.16

UNCLASSIFIED REPORT

DESCRIPTORS: (*SUBMARINE PERSONNEL, SELECTION), (*PSYCHOLOGICAL TESTS, SUBMARINE PERSONNEL), TESTS, TEST CONSTRUCTION(PSYCHOLOGY), ACHIEVEMENT TESTS, MOTIVATION, ADJUSTMENT(PSYCHOLOGY), QUESTIONNAIRES (U)

Multiple choice tests designed to assess individual differences in achievement in various training situations are in common usage in the Navy. Most test scoring machines are designed to score test items with four or fewer response alternatives. Often, however, it is desirable to include a wider gamut of choices to evaluate differences in response to a particular content area 'tapped' by the test item. This paper describes a straight-forward method of preparing scoring templates for the IBM-805 Test Scoring Machine to provide cumulative scores from 10-choice differentially weighted (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

)- 645 386 5/10 5/9 CALIFORNIA UNIV BERKELEY STUDIES OF LEARNING TO LEARN: III. CONDITIONS OF IMPROVEMENT IN SUCCESSIVE TRANSFER TASKS,

3

NDV 64 8P Keppel, Geoffrey; Postman, Leo ; CONTRACT: Nonr-222(90), PHS-MH-10429

UNCLASSIFIED REPORT

Availability: Published in Journal of Verbal

Learning and Verbal Behavior v5 n3 p2607 Jun
1966.

DESCRIPTORS: (*LEARNING, TRANSFER OF TRAINING),
REACTION(PSYCHOLOGY), PERFORMANCE(HUMAN), PSYCHOLOGICAL
TESTS, APPLIED PSYCHOLOGY, VERBAL BEHAVIOR, TRAINING,
ACHIEVEMENT TESTS, WORD ASSOCIATION (U)

A previous study in this series had shown that relative to a control condition positive transfer increases and negative transfer decreases as a result of experience with the relevant paradigms. The increases in positive transfer are more pronounced than the decreases in negative transfer. The present experiment investigated the question of whether the changes in transfer reflect the acquisition of learning skills specific to each paradigm or the development of general skills which can be applied with varying degrees of success depending on the paradigm.

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PAGE

ZOMO7 DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

5/10 1- 644 558 5/9 5/10 RAND CORP SANTA MONICA CALIF

3 GIFTEDNESS AND ACHIEVEMENT IN A SPECIAL PROGRAM,

Hays, David G. ; Rapp, 20P Marjorie L.; REPT. NO. P-3495

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, STUDENTS), (*CHILDREN, *INTELLIGENCE TESTS), ACHIEVEMENT TESTS, APTITUDE TESTS, EMOTIONS, LEARNING (U)

level, and that many of them had social and emotional school system has conducted special programs for academically talented students. These programs were than half were not achieving at their average grade prevented them from functioning effectively in the children with IQ 160 or higher had shown that more made of the programs for fourth, fifth, and sixth (SAT), which consists of six subtests. The main conclusion to be drawn from the study is that the tests used are not sufficient for the intended regular classroom. In the note an examination was grade children. Analyses are presented of scores obtained on the Stanford Achievement Test problems attributable to their giftedness which established after intensive studies of twenty For about twenty years, the San Diego city

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

GEORGE WASHINGTON UNIV ALEXANDRIA VA HUMAN RESOURCES RESEARCH OFFICE AD- 644 223

EFFECTS OF WRITTEN VERBALIZATION AND TIMING OF INFORMATION ON PROBLEM SOLVING IN PROGRAMED LEARNING.

Seidel, Robert J. : Rotberg 1 1 99 Iris C.

REPT. NO. HUMRRO professional paper-6-66 CONTRACT: DA-44-188-ARO-2

Availability: Published in Journal of Educational UNCLASSIFIED REPORT Psychology v57 n3 p151-8 1966. ESCRIPTORS: (*PROGRAMMED INSTRUCTION, EFFECTIVENESS), (*LEARNING, COMPUTER PROGRAMMING), PERFORMANCE(HUMAN), ACHIEVEMENT TESTS, PROBLEM SOLVING, SCHEDULING DESCRIPTORS:

aided later performance when writing more complex CPs on the criterion tests; (c) writing rules during training actually hindered Ss in writing writing explicitly the rules used in constructing appeared in the criterion tests; (b) naming the rules in addition to writing CPs during training only the CPs. The other factor was prompting vs. confirmation. Results indicated that: (a) during learning, prompting was significantly superior to confirmation, but a reverse tendency the CPs (b) writing the names of these rules in conjunction with writing CPs, or (c) writing factorial design concerned with effects of (a) Training on computer-program (CP) writing was given to 60 high school students in a 3 X 2 CPs later on the criterion tests. (Author)

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NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF AD- 640 067

NAVAL KNOWLEDGE AS A PREDICTOR OF SERVICE TENURE AMONG NROTC OFFICERS.

3

DESCRIPTIVE NOTE: Research rept.,
SEP 66 16P Githers, William H.; Neumann,
Idell; abrahams, Norman M.;
REPT. NO. SRR-67-5,
PROJ: PF016070201,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NAVAL PERSONNEL, SELECTION), OFFICER PERSONNEL, PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS, ACHIEVEMENT TESTS

IDENTIFIERS: PERSONNEL SCREENING TESTS
(

 $\widehat{\Xi}$ evaluated as a single predictor, the NKT was examined for useful interrelationships with two other predictors: (1) the Naval College Aptitude Test (NCAT), and, (2) the applicant's were validated in 1966 against the service tenure of 765 officers who had been accepted into the NROTC program and commissioned. In addition to being response to a question regarding career intention (CQ). The validity of the NKT reached a useful level, but fell short of statistical significance. and since other significantly valid predictors are now available, use of the NKT in NROTC selection In view of its lack of statistical significance, (NKT) administered to NROTC applicants in 1956 The scores on a 30-item Naval Knowledge lest is not recommended. (Author)

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY AD- 639 046 5/10
TUFTS COLL MEDFORD MASS INST FOR APPLIED EXPERIMENTAL PSYCHOLOGY

3 RESEARCH AND DEVELOPMENT OF READING ASSESSOR

Hoffman, Arthur C. : Gray, DESCRIPTIVE NOTE: Interim rept.

Florence E. :

SPECDEVCEN 58-3-1 N5or i -058(03), REPT. NO. CONTRACT: MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*READING, ACHIEVEMENT TESTS), EYE, MOTION, STATISTICAL TESTS

movements made while reading the selection, number of saccadic movements made in a left-right direction and were studied in relation to total time taken to read the experimental selection, total number of eyeimproving level of comprehension, the purpose of the comprehension level and certain measures of reading eye-movements. The personnel of the experiment were in a right-left direction along the line of print. comprehension checks were taken from standardized reading achievement tests. Eye-movements, while reading, were recorded by means of the score were not found to be significant. Number of regressive saccades and total time were found to left-right saccadic movements with comprehension electroculogram technique. Comprehension scores experiment was to test the relationship between Correlations between total count and number of college students. The reading materials and In the interest of developing a device for predict comprehension score. (Author)

PAGE

UNCLASSIFIED

UNCLASSIFIED

38

SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

AD- 639 045 5/10 6/16
TUFTS COLL MEDFORD MASS INST FOR APPLIED EXPERIMENTAL PSYCHOLOGY

3 APPLICATION OF ELECTRO-PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR - THE ALERTNESS INDICATOR.

DESCRIPTIVE NOTE: Rept. for Sep 47-May 49. 50 50P N5ori-058(02), MONITOR: SPECDEVCEN PROJ: NR-782-003 APR 50 CONTRACT: NSc

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Rept. on Psychological Studies of Training Techniques. See also AD-639 043., AD-639 044, AD-639 046. (*PERFORMANCE(HUMAN), *ELECTROPHYSIOLOGY), (*READING, ACHIEVEMENT TESTS), (*ATTENTION, MONITORS), MEASUREMENT, EYE, MOTION, BRAIN, SLEEP, FATIGUE(PHYSIOLOGY), MOTOR VEHICLE OPERATORS, AVIATION PERSONNEL, SUBMARINE PERSONNEL DESCRIPTORS:

device to diagnose reading difficulties and provide a means of improving reading comprehension of Naval recruits in the use of manuals and instructional texts. One supposedly hazardous experimental artifact was always present in the experiments. This artifact turned out to be the newly discovered brain wave (the kappa rhythm) which seems to be associated with difficult recall. This new brain unalertness to the point of dozing off showed that at wave was superimposed on the eye movement records to the extent that valid electronic counting of the amount of sleep the previous night, boredom of the task, and the like. Experience with practically all oscillations in tension level occurred, reaching a from the forehead region was at a very low level. the time of inattentiveness the biolectric output significant eye movements was impossible. The development of a reading assessor was abandoned. elertness was found to depend on his motivation, Just previous to this low tension level certain high level then suddenly dropping to a low level Reading assessor: The purpose was to develop a subjects who exhibited an occasional state of Alertness indicator: An individual's level of

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES ELECTRONICS PERSONNEL RESEARCH GROUP 2/9 AD- 636 988

3 DEVELOPMENT: III. THE BASIC PROGRAMMING KNOWLEDGE COMPUTER PERSONNEL SELECTION AND CRITERION

Rigney, Joseph W. DESCRIPTIVE NOTE: Technical rept. JUN 66 51P REPT. NO. TR-49, CONTRACT: NOFF-228(22), PROJ: NR-153-093,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

See also AD-432 020.

(*COMPUTER PROGRAMMING, PSYCHOLOGICAL TESTS), ACHIEVEMENT TESTS, JOB ANALYSIS, PROGRAMMING LANGUAGES, STATISTICAL ANALYSIS, STANDARDS (*COMPUTER PERSONNEL, SELECTION), DESCRIPTORS:

3 Criterion of programming proficiency. To achieve a close correspondence of test content to programming job requirements, subject-matter experts participated in the construction and review of the test questions. Test questions were selected that met the criteria of discrimination and appropriate difficulty, as indicated by the statistical analysis of results of a large preliminary testing. The final form of the test consists of 100 multiple-choice questions that number of vocational and educational variables are are designed to be free of references to specific scores were developed for Naby computer groups. The relationships of the BPKT test scores to a computers and languages now in use. Normative (BPKT), is intended to stand by itself as a The Basic Programming Knowledge Test described. (Author)

ZOMO2 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

)- 635 304 5/9
NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA

ACADEMIC GRADES IN PRIMARY FLIGHT TRAINING AS PREDICTORS OF FLIGHT SUCCESS.

3

DESCRIPTIVE NOTE: Special rept.
MAR 66 10P Peterson, Floyd E.; Pomarolli, SR-66-3, Richard S. : REPT. NO.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*ACHIEVEMENT TESTS, NAVAL TRAINING), (*NAVAL TRAINING, PERFORMANCE(HUMAN)), SELECTION, AMALYSIS, EFFECTIVENESS, AVIATION PERSONNEL

3 aviation training. It was found that the addition of primary academic grades to the present prediction system resulted in a significant increase in Academic grades received during primary training were evaluated as predictors of success in naval predictive effectiveness. (Author) were evaluated as predictors of

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

3 THE RELATIONSHIP OF READING ABILITY TO ACHIEVEMENT IN AN EXPERIMENTAL ELECTRONICS TECHNICIAN SCHOOL.

DESCRIPTIVE NOTE: Research memo., Lun 66 11P Hooprich, Eugene A.; JUN 66 11P REPT. NO. SRM-66-37, PROJ: PF017030310,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 FESCRIPTORS: (*NAVAL TRAINING, ELECTRONIC TECHNICIANS), (*ELECTRONIC TECHNICIANS, SELECTION), (*READING, PERFORMANCE(HUMAN)), NAVAL PERSONNEL, ACHIEVEMENT TESTS, APTITUDE TESTS, STATISTICAL ANALYSIS, CORRELATION DESCRIPTORS TECHNIQUES

trainees' scores on all tests administered throughout An investigation was conducted to determine the relationship between reading ability and achievement Orientation and approach similar to the experimental significant correlations were obtained. Results indicate that, for technical training courses with Derformance, and trainees were selected from among ET School, reading ability within the range of the present sample is not a critical factor in School classes trained between September 1964 and Schools. The achievement criteria were composite the course. Product-moment correlations were computed between two reading test scores and the in the experimental Electronics Technician (ET) School conducted by the Navy Training Research Laboratory, San Diego. The sample (N=75) consisted of members of five experimental ET May 1966. The experimental training course was Navy recruits who had aptitude scores slightly below those required for selection to ET 'A' training achievement scores. No statistically oriented toward proficiency in maintenance scores (written and performance) based on determining success in training. (Author)

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PAGE

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

HUMAN RESOURCES RESEARCH OFFICE GEORGE WASHINGTON UNIV ALEXANDRIA VA

3 COURSE ACHIEVEMENT OF STUDENTS WITH UNSATISFACTORY ACADEMIC AVERAGES IN BASIC ELECTRONICS.

Anderson, Harry E. . Jr. DESCRIPTIVE NOTE: Staff memo., Whipple, James E. ; SEP 58 26P

TASK: RADAR-9

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*ELECTRONICS, ARMY TRAINING), (*ARMY TRAINING, PSYCHOLOGICAL TESTS), (*ACHIEVEMENT TESTS, MILITARY REQUIREMENTS), STUDENTS, APTITUDE TESTS, **EDUCATION**

3 The study was conducted to investigate atademic achievement of students in a fire control maintenance regardless of grades and without undergoing boarding grades in Basic Electronics, possessed the ability to make satisfactory grades in later phases technique used can be utilized by training agencies to determine, objectively and acientifically, what grades during training will be optimal for passing, boarding, and failing. (Author) analysis of grades throughout the course for each trainee. An electronics aptitude test was given to each trainee prior to the course. The study showed course. Four experimental classes, involving a total of 92 trainees, for whom complete data were removed from their class as a result of deficient that a substantial number of students, normally available, were allowed to complete the course of instruction on the equipment. The principal recommendation from the research is that the action. This experimental procedure permitted

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

5/10 WEST TEXAS STATE UNIV CANYON* 5/9 AD- 631 138

3 SOME INTERACTIONS BETWEEN INDIVIDUAL DIFFERENCES AND MODES OF INSTRUCTION.

DESCRIPTIVE NOTE: Final rept., Jan 64-Mar 65, DEC 65 20P Bush, Wilma JO : gregg.

Dolores K. : Smith, Edgar A. : McBride, Coit B. :

CONTRACT: AF 33(615)-1460,

PROJ: AF-1710, TASK: 171007,

TR-65-228 MONITOR: AMRL ,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TEACHING METHODS, HUMANS), STUDENTS, LEARNING, PSYCHOLOGICAL TESTS, ACHIEVEMENT, INTELLIGENCE TESTS, PERFORMANCE(HUMAN), APTITUDE, READING, VOCABULARY, MATHEMATICS, VERBAL, TRAINING DEVICES, TEACHING MACHINES, PROGRAMMED INSTRUCTION, STATISTICAL ANALYSIS, CORRELATION TECHNIQUES

3 relationship between patterns of learning ability and relationship was observed between the difference on the subtests of the California Achievement Test and the difference between the gain score from This study explored the hypothesis that there is a support the hypothesis that students with relative strength in Reading Vocabulary are superior to Wechsler Adult Intelligence Scale. Each of the 44 subjects also learned in five different training situations. Differences between scores of associated subtests (e.g., Reading Vocabulary minus Mathematics Fundamentals) were correlated with the difference between gain scores obtained the various learning situations. A significant lecture-like instruction and the gain score in laboratory-like instruction. The data tended to conditions. Scores for each of 44 subjects were students with relative strength in Mathematics Administrative and the Mechanical Scales from the amount learned in different instructional the Mathematics Fundamentals subtests of the the Airman Qualifying Examination, and (c) the Verbal and Performance Scales of the obtained on (a) the Reading Vocabulary and California Achievement Test, (b) the

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 627 844 5/9 5/10
NAVAL PERSCNNEL RESEARCH ACTIVITY SAN DISSO CALIF

DEVELOPMENT AND PRELIMINARY EVALUATION OF THE U. S. NAVY AUTOMOTIVE KNOWLEDGE TEST.

Swanson, Leonard ; DESCRIPTIVE NOTE: Technical bulletin, JAN 66 22P Swanson, Leonar REPT. NO. STB-66-20 PROJ: PF016050101

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 3 DESCRIPTORS: (*NAVAL PERSONNEL, SELECTION), (*ACHIEVEMENT TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), VEHICLES, MAINTENANCE, PERSONNEL MANAGEMENT, RELIABILITY
IDENTIFIERS: EVALUATION, PERSONNEL SCREENING

3 since the correlation between AKT and MECH was .76 and the pattern of correlations with other basic battery tests was similar. A 23-item key for the AKT was as valid as the 100-item MECH for The purpose of this study was the development and preliminary evaluation of an automotive information predicting grades in five of six schools studied. It is recommended that the AKT be included in an extensive program of short test evaluation which should be undertaken at all Navy schools after automated test processing equipment becomes Automotive knowledge Test (AKT) was developed. This test, with a reliability of .89, appeared to measure the same factors as the USN Mechanical Test (MECH) of the Basic Battery, test for possible use in assigning personnel to selected mechanical schools. A brief (35-item) available. (Author)

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SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

BUCKNELL UNIV LEWISBURG PA DEPT OF PSYCHOLOGY AD- 627 596

FEAR OF FAILURE AND GENERAL ACHIEVEMENT BEHAVIOR.

3

DESCRIPTIVE NOTE: Annual rept. NOV 65 12P CONTRACT: Nonr-3591(01) PROJ: NR-171-803

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 ESCRIPTORS: (*FEAR, PSYCHOLOGICAL TESTS), THEORY, ACHIEVEMENT TESTS, PERCEPTION(PSYCHOLOGY), BEHAVIOR DESCRIPTORS:

development and testing of a General Theory of Achievement Behavior. The report concerns (1) The validation and exploration of the Hostile Press (HP) scoring system for fear of failure and, (2) the

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42

PAGE

UNCLASSIFIED

43

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY

MALTER REED ARMY INST OF RESEARCH WASHINGTON D C AD- 623 041

MEASUREMENT OF ACHIEVEMENT MOTIVATION IN ARMY SECURITY AGENCY FOREIGN LANGUAGE CANDIDATES,

3

Datel, William E. : Hall, Forrest D. : Rufe, Charles P. ;

UNCLASSIFIED REPORT

Psychological Measurement v25 n2 p539-45 1965 (Copies not available to DDC or Clearinghouse customers). SUPPLEMENTARY NOTE: Pub. in Educational and

33 DESCRIPTORS: (*ACHIEVEMENT TESTS, ARMY PERSONNEL), (*ARMY PERSONNEL, SELECTION), MOTIVATION, APTITUDE TESTS, INTELLIGENCE TESTS, PERFORMANCE(HUMAN), STUDENTS, STATISTICAL ANALYSIS, CORRELATION TECHNIQUES

correlation analysis in which grades were used as the criterion was run on the data and, although yielding that a construct of achievement motivati n emerges as California Psychological Inventory were added to the traditional screening armamentarium prior to 290 Army Security Agency soldier-students' engagement in full time study of a foreign language. In terms of use of the differencebetween-means percent, two of the achievement scales significantly method of analyzing the data on successful 'completions' versus 'dropouts,' it was found that when the attrition rate for the sample was only 7.2 a very modest multiple correlation coefficient, did with the difference between means analysis, suggest produce results which, when viewed in conjunction traditional measures (amount of formal education, differentiated the two subsamples, whereas GT, and ALAT) failed to do so. A multiple Three achievement scales from Gough's

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ZOMOZ SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 622 215

NAVAL MEDICAL RESEARCH LAB NEW LONDON CONN

3 FORM OF THE OFFICER MECHANICAL APTITUDE TEST, FORM X-1 (NAVPERS-16640) WITH (1) RESULTS ON THE OFFICER QUALIFICATION TEST, FORM 3, (NAVPERS-16563) AND (2) GRADES IN SUBMARINE SCHOOL, COMPARISON OF RESULTS OBTAINED ON THE EXPERIMENTAL

6P

Bartlett, N. R. ;

MRL-43 AUG 44 REPT. NO. MRI PROJ: X382

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

TECHNIQUES), (*OFFICER PERSONNEL, SELECTION), (*SUBMARINE PERSONNEL, SELECTION), APTITUDE TESTS, STUDENTS, ACHIEVEMENT TESTS (*PSYCHOLOGICAL TESTS, CORRELATION DESCRIPTORS:

IDENTIFIERS: PERSONNEL SCREENING TESTS

33

those on arithmetic reasoning and mechanical comprehension yield the largest coefficients. The population on which the report is based is a somewhat and to submarine school grades are presented. It is noted that of the various sections of these tests, the success of those devices in predicting grades in reported for a population of commissioned candidates for submarine school. Correlation coefficients showing the relationship of the scores to each other by previous decisions on the proposed content of the Officer Classification Test; both scales discussed are incorporated in modified form in this submarine school. The choice of tests was governed The study was undertaken in order to determine the interrelationship of certain selection devices and Means and standard deviations of test scores are selected sample of junior commissioned officers.

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The findings provide encouragement for the incorporation of achievement motivation scales into intelligence in the prediction of academic success.

a distinct dimension apart from aptitude or

selection batteries for academic performance.

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new instrument.

ZOWOZ SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

AD-

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

3 AN EVALUATION OF VARIOUS MEASURES OF HIGH SCHOOL PERFORMANCE IN PREDICTING COLLEGE ACHIEVEMENT FOR FRESHMAN NROTC REGULAR STUDENTS.

Thomas, Edmund ; Thomas, DESCRIPTIVE NOTE: Final rept., MAR 65 22P Thom Patricia ; Swanson, Leonard;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NAVAL PERSONNEL, SELECTION), (*NAVAL TRAINING, UNIVERSITIES), (*ACHIEVEMENT TESTS, NAVAL PERSONNEL), OFFICER PERSONNEL, STUDENTS, STATISTICAL

3 significant. None of the other composites of courses or individual course average attained as high the averages, Foreign Language, History, and Physics, correlated higher with first year college grade point average than did any other indes of high school performance. It was recommended that HSR be retained as a selector for the NROTC Regular program since it is more easily derived than the the validity of individual high school course grades and a number of general curriculum areas as Academic high school grade average, the grade average of liberal arts courses, and overall high school grade average correlated higher with college requesting high school rankin-class be developed in an effort to obtain this statistic for all units were transformed to a 15-point grading scale. predictors of freshman college grade point average. The research was designed to investigate the validity of high school performance, measured in a grade averages investigated in this study. It was Statistical analyses were conducted to determine further recommended that a new form specifically achievement that the presently operational High School Rating (HSR), although the increase in college freshman grade point average. Grades on high school transcripts obtained from 13 NRGIC a correlation with the criterion as did HSR. In number of different ways, in the prediction of validity in each case was not statistically

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SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

AD- 612 891 DIRECTORATE OF PERSONNEL AND SUPPORT OPERATIONS WRIGHT-PATTERSON AFB OHIO

DEVELOPMENT OF AN ELECTRICAL/ELECTRONIC TEST BATTERY,

Wilfong, Harry D. : Wagner Research rept., DESCRIPTIVE NOTE:

PRP-EM-62-1 OCT 64 55P REPT. NO.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ACHIEVEMENT TESTS, ELECTRONIC
TECHNICIAN), (*TEST CONSTRUCTION, ACHIEVEMENT TESTS),
(*ELECTRICAL EQUIPMENT, ACHIEVEMENT TESTS), PERFORMANCE
TEST, JOB ANALYSIS, INDUSTRIAL PSYCHOLOGY, AIR FORCE,
CIVILIAN PERSONNEL

employees in the electronics and related job series instrument. The job element approach to job knowledge test construction is endorsed as the most practical means of constructing future Air Force demonstrated effectiveness of the job element sub-tests in discriminating between various electronic The report describes the operation and results of Element' as a unit for test development puropses was examined. The results of administering the an experimental test development approach in the Concurrent with construction of an Electrical-Electronic Test Battery, the use of a 'Job specialities. The final battery is recommended electrical/ electronics occupational area. battery to a sample of Air Force civilian throughout the Air Force as a selection tests in the Wage Board area. (Author)

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DDC REPORT BIBLIDGRAPHY ZOMO2

SEARCH CONTROL NO.

DOC REPORT BIBLIDGRAPHY

AD- 611 979

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AD- 608 247

DUNLAP AND ASSOCIATES INC WASHINGTON D C

3

CONFIDENCE, CORRECTNESS, AND DIFFICULTY WITH NON-PSYCHOPHYSICAL COMPARATIVE JUDGMENTS,

ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS

McGoldrick, Charles C., Jr.; REPT. NO. ESD-TDR-63-324

UNCLASSIFIED REPORT

Peters, Arthur W. ; Chambers 104P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 TRAINING, FEEDBACK), (*PERSONNEL MANAGEMENT, NAVAL
TRAINING), MILITARY REQUIREMENTS, EDUCATION, PERFORMANCE
(HOWAN), ACHIEVEMENT TESTS, MODELS (SIMULATIONS),
MANAGEMENT PLANNING AND CONTROL, NAVAL RESEARCH,
RESEARCH MANAGEMENT
IDENTIFIERS: JOB PERFORMANCE STANDARDS
(L (*NAVAL PERSONNEL, TRAINING), (*NAVAL

The objectives of this study were to survey the present status of the training feedback (TF) process in the research, development, test, and evaluation (RDI and E) of Navy systems to determine its bearing on the effectiveness of present are inadequate. Therefore, recommendations were developed for improvements to the TF process. These were classified as technical and management recommendations; and were treated in terms of whether several Navy systems in various stages of development revealed that existing provisions for generating, disseminating and utilizing information only one specific portion of the overall personnel subsystem (PS) development and evaluation process; therefore, it is treated within this context. require additional research before they could be implemented. The IF process is considered to be management or technical methods, or (b) would they: (a) could be implemented with existing training evaluation programs. Examination of

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SEARCH CONTROL NO. ZOMO7

TRAINING FEEDBACK INFORMATION REQUIREMENTS AND METHODS IN THE RESEARCH, DEVELOPMENT, TEST, AND EVALUATION OF NAVY SYSTEMS,

3

Armand N. : Thomson, Robert M. :

CONTRACT: Nonr4167 00 MONITOR: ND 65-4

DESCRIPTORS:

33

DESCRIPTORS: (*ACHIEVEMENT TESTS, PERFORMANCE (HUMAN)).
(*PERFORMANCE (HUMAN), DECISION MAKING), TEST
CONSTRUCTION (PSYCHOLOGY), PSYCHOLOGICAL TESTS,
DERCEPTION (PSYCHOLOGY)
(U)

DESCRIPTORS:

SUPPLEMENTARY NOTE: Pub. in Perceptual and Motor Skills (U.S.) v17 p159-67 1963 (Copies not available to DDC or Clearinghouse customers).

'intellectual' judgments varies considerably with the difficulty of the judgments involved. (Author) constructed, representing different levels of difficulty. Individual items on each test consisted of the names of four states and a 5-point confidence rating scale. S's task was to choose the largest state in each item and indicate his degree of confidence in schoice. Although confidence assignments were somewhat higher for relatively easy judgments than for more difficult ones, the difference was not sufficient to keep the invariant with respect to the difficulty of the judgmental task. In short, the results indicate that the value of confidence expressions as relationship between confidence and correctness Three 4-alternative forced-choice tests were indicators of the probable correctness of intellectual' judgments varies considerat

SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY

AD- 603 569
ILLINDIS UNIV URBANA TRAINING RESEARCH LAB

MODEL THE MASTER TEACHER OR MASTER THE TEACHING

3

DESCRIPTIVE NOTE: Technical rept. no. 3, JUL 64 38P Stolurow, Lawrence M. CONTRACT: Nonr3985 04

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Research on Pre-Programed Self-Instruction and Self-Programed Individualized Education. DESCRIPTORS: (*EDUCATION, MODELS (SIMULATIONS)),
PROGRAMMING (COMPUTERS), LEARNING, DECISION MAKING,
MOTIVATION, APTITUDE TESTS, ACHIEVEMENT TESTS (U)

The computer program used to make a decision about the contingencies of various events upon the different responses of individual students is an explicit model of teaching. It relates data about individuals such as test scores and performance during learning to each of the decisions made during the instruction of every student. In this sense, it uses the results of the study of individual differences and those of the learning laboratory to produce a testable model of teaching. Hopefully, mastering the teaching model will prove to be more useful than previous efforts at modeling the master teacher. (Author)

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 603 109
PSYCHOLOGICAL RESEARCH SERVICE INC AUSTIN TEX

DEVELOPMENT OF A COUNSELING FORM FOR USE BY SUPERVISING OFFICERS,

3

MAY 64 31P James, Lewis F. ; Fruchter Dorothy A. ;

Dorothy A. ; CONTRACT: AF41 609 2012 PROJ: 7719 TASK: 771904 UNCLASSIFIED REPORT

MONITOR: PRI

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SUPERVISORS, JOB ANALYSIS), (*ACHIEVEMENT TESTS, DFFICER PERSONNEL, ACHIEVEMENT TESTS, DFFICER PERSONNEL, ACHIEVEMENT TESTS), APTITUDE TESTS, TEST CONSTRUCTION (PSYCHOLOGY), LEADERSHIP, MOTIVATION (U) IDENTIFIERS: COUNSELING (U)

revised form included 66 items selected on the basis of validity and acceptability rating. Revised interview and item acceptability forms were completed by 100 officers. The final form of 50 items is for rating the importance of each interview item on a of an interview form for one subordinate officer and thus an interview guide composed of items of proven supervisory officers in making constructive use of the officer evaluation procedure. From reports of previous studies of counseling procedures in both military and civilian organization, 100 items were selected and categorized for inclusion in 3 tryout Separate item acceptability form. Interview items Analysis of rating officers' comments gave little evidence of interest in using such a device. were validated against the subordinate officer's 1200 officers (400 for each form) for completion forms: a checklist, a forced-choice form, and a level-of-achievement form. Request was made to A counseling interview form was devised to aid relevance to success as an Air Force Officer. Overall Rating from his most recent DER. A (Author)

UNCLASSIFIED

46

PAGE

UNCLASSIFIED

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 601 943

GEORGE WASHINGTON UNIV ALEXANDRIA VA HUMAN RESOURCES RESEARCH OFFICE

3 A TEST OF A METHOD OF CONVERTING PROFICIENCY SCORES TO LEARNING TIME SCORES.

Cox, John A. : Boren, Lynn Research memo. DESCRIPTIVE NOTE:

JUN 64 40P CO M. :Wood,Robert D. ,Jr.; CONTRACT: DA44 188AR02

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ACHIEVEMENT TESTS, TRAINING), (*LEARNING, TIME), (*TRAINING DEVICES), MILITARY PERSONNEL, ARMY TRAINING, CONTROL SIMULATORS, JOB ANALYSIS, PERFORMANCE (HUMAN), CORRELATION TECHNIQUES, STATISTICAL TESTS (U)

A method of converting proficiency scores to learning time scores for use in evaluating alternate types of training devices using differences in learning times as the basis for comparison is described. An empirical application of the conversion technique and a demonstration of the failure of the process to show valid prediction of learning time because of differences in the training methods used is also recounted. (Author)

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20M07 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 601 210

PRINCETON UNIV N

3 THE IMPORTANCE OF PROBLEM HETEROGENEITY TO PROGRAMMED LEARNING.

MAY 64 91P Traub, Ross E. CONTRACT: Non-1858(15), Non-2214(00) PROJ: NR150 088and ,NR151 174

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 (*TEACHING MACHINES, PSYCHOLOGICAL TESTS), (*PROGRAMMING (COMPUTERS), LEARNING), (*LEARNING, PSYCHOLOGICAL TESTS), ACHIEVEMENT TESTS, REACTION (PSYCHOLOGY), PERFORMANCE (HUMAN), DECISION MAKING, HUMAN FACTORS ENGINEERING DESCRIPTORS:

3 The study concerns the determination of the kinds of variables which are important in programming the task hierarchy for efficient learning.

AD- 600 702

EDUCATIONAL TESTING SERVICE PRINCETON N .:

DIFFICULTY AND OTHER CORRELATES OF CRITICALNESS RESPONSE STYLE AT THE ITEM LEVEL,

Stricker, Lawrence J. ; MAY 64 39P CONTRACT: Nonr2338 00

PROJ: NR151 182

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

 $\widehat{\Xi}$ DESCRIPTORS: (*ACHIEVEMENT TESTS, PSYCHOLOGICAL TESTS), (*REACTION (PSYCHOLOGY), ACHIEVEMENT), PERSONALITY, FACTOR ANALYSIS, REPORTS DESCRIPTORS:

the test was generally related to their correlations with the response style score, and unrelated to the other variables; and (c) the readability indexes The study examined the relationship between the difficulty of items on an achievement-type test of report writing and (a) the items' correlations with the test's criticalness response style score, to their correlations with the content score and unrelated to the items' correlations with the response style score; (b) the items' location in variables were also analyzed. The major findings were that (a) the items' difficulty was related and (b) the items' correlations with the test's content score. Item readability and item format (Author)

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SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J AD- 489 592

A STUDY OF PERCEPTUAL RECOGNITION IN TWO SENSE

MODALITIES.

 $\widehat{\Xi}$

3

DESCRIPTIVE NOTE: Doctoral thesis,

Frederiksen, John R. JUN 66 134P

CONTRACT: NON-2214(00) PROJ: NR-151-174 UNCLASSIFIED REPORT

UPPLEMENTARY NOTE: Prepared in cooperation with Princeton Univ., N. J. Contract Nonr-1858(15). SUPPLEMENTARY NOTE:

DESCRIPTORS: (*VISUAL PERCEPTION, *PATTERN RECOGNITION), (*AUDITORY PERCEPTION, *SPEECH RECOGNITION), PSYCHOLOGICAL TESTS, VISUAL SIGNALS, AUDITORY SIGNALS, IMAGES, WORD ASSOCIATION, EXPOSURE(PHYSIOLOGY), ACHIEVEMENT TESTS, DISTRIBULION, PERFORMANCE(HUMAN), STIMULATION(PHYSIOLOGY), ERRORS, FOCUSING, ATTENDATION, ANALYSIS OF VARIANCE, MATHEMATICAL PREDICTION, PROBLEM SOLVING

auditory recognition test was developed which employed a previously untried technique for producing ambiguity. The Auditory Recognition Test in the second treatment group began each auditory and divided into two groups, each of which was exposed to objects to be recognized. These words were rendered ambiguous by masking them with a mixture of other speech sounds and ambiguity was slowly reduced the generality of previous findings in which blurred upon subsequent recognition of ambiguous stimuli was by the gradual attenuation of the mask. Both recognition tasks, therefore, presented the subject with a situation which his erroneous initial did any interest of the state of ambiguity than studied in two sense modalities. In order to test hypotheses about the nature of the of the stimulus visual images served as the ambiguous stimuli, an The adverse effect of early exposure to ambiguity a different overall range of ambiguity. Subjects ambiguity (degree of focus or masking level) was contained a series of words which served as the slowly reduced. The experimental subjects were were gradually disconfirmed, as the degree of did subjects in the first group.

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIOGRAPHY

DUNLAP AND ASSOCIATES INC SANTA MONICA CALIF WESTERN AD- 487 908

DEVELOPMENT OF A TECHNIQUE FOR ESTABLISHING PERSONNE PERFORMANCE STANDARDS (TEPPS).

DESCRIPTIVE NOTE: Final rept. Jan-Jul 66 on Phase 3, Jul 66 69P Mitchell, Meredith B. ; Smith, JUL 66 69P Mitchell Russell L. ; Verdi, Angelo P. ; CONTRACT: Nonr-4314(00)

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*NAVAL PERSONNEL, *PERFORMANCE(HUMAN)), (*MAN MACHINE SYSTEMS, STANDARDS), SYSTEMS ENGINEERING, MATHEMATICAL MODELS, NAVAL EQUIPMENT, JOB ANALYSIS, ACHIEVEMENT TESTS, SELECTION, PSYCHOLOGICAL TESTS, MILITARY REQUIREMENTS, DETERMINATION, EFFECTIVENESS, SENSITIVITY, DATA STORAGE SYSTEMS DESCRIPTORS:

3 probability of success, and interactions among system personnel-equipment functional units based on degree develop a method for establishing personnel performance standards is reported. Emphasis was placed on (1) developing a technique for allocating system effectiveness requirements to establish performance standards based on estimates of techniques; (2) extending TEPPS methodology to identify essential personnel-equipment functional units and to account for the influence of feedback and redundancy on derived performance standards and estimated system success probabilities: (3) consideration of the implications to current TEPPS concept and tentative program plan for a personnel performance data store for Navy systems. methodology of system effectiveness requirements stated on dimensions which are more complex than of success; and (4) development of a preliminary Mork performed during Phase 3 of a study to (Author)

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES ELECTRONICS PERSONNEL RESEARCH GROUP 5/9 AD- 483 974

POTENTIAL USES OF COMPUTERS AS TEACHING MACHINES

3

Rigney, Joseph W. 6

UNCLASSIFIED REPORT

(*DIGITAL COMPUTERS, TEACHING MACHINES), FEASIBILITY STUDIES, HUMAN FACTORS ENGINEERING, PERFORMANCE(HUMAN), MAN MACHINE SYSTEMS, ACHIEVEMENT TESTS, APPLIED PSYCHOLOGY, EDUCATION DESCRIPTORS:

3

3 implement, developing man-computer interactions which will adjust the presentation of the material to be ndividual differences in learning has potentialities there appears to be a great deal of this information that is suggestive of directions to take, and of problems that will arise. However, it is likely methodology and their own fund of research experience this purpose will have to develop their own specific within the broader context of traditional studies of learned to individual capabilities and requirements depends upon a suitable background of psychological information for guidance. At the present time, However, its application to this problem in any of these environments is in relatively crude stages. that investigators trying to use this new tool for in at least three types of learning environments. The use of interactive capacity to deal with Although not technologically impossible to individual differences in learning.

ZOM07 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

HUMAN RESOURCES RESEARCH OFFICE GEORGE WASHINGTON UNIV ALEXANDRIA VA AD- 480 323

BASIC MILITARY KNOWLEDGE IN THE ARMY RESERVE.

ü Montague, William TE: Staff memo., DESCRIPTIVE NOTE: DEC 56

UNCLASSIFIED REPORT

ESCRIPTORS: (*MILITARY PERSONNEL, *ACHIEVEMENT TESTS), (*MILITARY RESERVES, *ARMY PERSONNEL), FACTOR ANALYSIS, EDUCATION, APTITUDE TESTS, MILITARY TRAINING (U

knowledge possessed by various categories of enlisted men active in the Army Reserve in 1954, the Basic Military Proficiency Test was administered to 2840 reservists in six U.S.A.R. six selected military career background factors. The results provide the Army with quantitative estimates of the level of basic military knowledge possessed by men of varying military experience who In order to determine the amount of basic military Divisions. The scores were analyzed in terms of were active in the Army Reserve Program.

UNCLASSIFIED

SEARCH CONTROL NO. 1- 475 386 5/10 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF DDC REPORT BIBLIDGRAPHY AD- 475 386

Z EFFECT OF SERVICE TENURE UPON PERSONALITY CHARACTERISTICS AS MEASURED BY THE STRUCTUREDOBUECTIVE RORSCHACH TEST (SORT). AN INVESTIGATION OF THE POSSIBLE EXISTENCE OF

3

Rushing, Charles F. DESCRIPTIVE NOTE: Master's thesis, 57P

UNCLASSIFIED REPORT

3 JESCRIPTORS: (*PROJECTIVE TECHNIQUES, EFFECTIVENESS), (*PERSONALITY, *STRESS(PSYCHOLOGY)), NAVAL PERSONNEL, PSYCHOLOGICAL TESTS, MILITARY REQUIREMENTS, SELECTION, CLASSIFICATION, STATISTICAL ANALYSIS, COMPUTER PROGRAMMING, GROUP DYNAMICS

Postgraduate School students were subjected to a multiple regression analysis to determine if there is an effect of service tenure upon personality characteristics. The results obtained indicate military group comparisons is undertermined, and that that SORT scores, which are a measure of personality characteristics, are probably random in respect to service tenure and age. The study includes a review of the history of group Rorschach methods, civilian and military, and evaluates the possible future use of the SORT in the Navy. It concluded that the value of the SORT for further use of the test at the Naval Postgraduate School is necessary in order that its value Structured-Objective Rorschach Test (SORT) definitely may be established. (Author) scores of 218 United States Naval

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SEARCH CONTROL NO. ZOMOT DOC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACTLA FLA

PERSONALITY ORIENTATION AND SUCCESS IN NAVAL AVIATION TRAINING.

Shoenberger, Richard W. MR005-13-3003,38 63 7P NAVMED, NAVMED DEC MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

(*AVIATION PERSONNEL, NAVAL TRAINING), (*NAVAL TRAINING, NAVAL AVIATION), PERSONALITY, SOCIAL COMMUNICATION, MATHEMATICAL PREDICTION, SELECTION, ANALYSIS, RELIABILITY, ACHIEVEMENT TESTS, MEASUREMENT, STANDARDS, BEHAVIOR

IDENTIFIERS: TASK ORIENTATION (U) (*MILITARY PSYCHOLOGY, AVIATION PERSONNEL) DESCRIPTORS:

3 battery. Results showed that SIT scores bear little relationship to success in mayal aviation training, and it was concluded that the addition of the SIT Inventory to the selection battery would The relationship between personality orientation, as measured by Bass' SIT Inventory, and success in naval aviation training was investigated. This was done as an evaluation of the SIT Inventory as not increase prediction validity. (Author)

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ZOM07 SEARCH CONTROL NO. COC REPORT BIBLIOGRAPHY

BUCKNELL UNIV LEWISBURG PA

COMPARATIVE STUDY OF REINFORCEMENT IN A VERBAL

3

LEARNING TASK.

Final rept. DESCRIPTIVE NOTE:

CONTRACT: AF-AFOSR-62-323 PROJ: AF-9778 TASK: 977801

MONITOR: AFOSR

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERFORMANCE(HUMAN), PSYCHOLOGY), ACHIEVEMENT TESTS, ANALYSIS, REACTION (PSYCHOLOGY), ERRORS, TEACHINE MACHINES

3

Comparative study of reinforcement in a verbal learning

5

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C Ap-

 $\widehat{\Xi}$ STATUS REPORT ON RESEARCH FOR THE U.S. MILITARY ACADEMY (CADET LEADERS TASK),

DESCRIPTIVE NOTE: Technical research rept., Haggerty, Helen R. : PROJ: DA-2-J-024701-A-722 AEPT. NO. APRO-TRR-1133

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MILITARY PERSONNEL, MEASUREMENT), (*LEADERSHIP, JOB ANALYSIS), TRAINING, SELECTION, CLASSIFICATION, ACHIEVEMENT TESTS, ANALYSIS, PSYCHOLOGY

3 3 IDENTIFIERS: CADETS, LEADERSHIP TRAINING, MILITARY ACADEMY, WEST POINT

developed and administered with the objective of lementing current selection measures to provide adequate assessment of motivation and leadership primary officer training programs. The present report deals with research undertaken in a series of projects covering the period 1 January 1957 through 31 December 1962. The two major problems with which the current research has been concerned are to later performance on both field grade and company prediction of success of WP graduates in officer assignments of various types and at various levels, eadership potential and who also are motivated to Continues to maintain its predictive fority over other WP measures with reference in the continuation of psychological research for evaluating achievement in various aspects of the during WW II, effort has been largely concerned ind identification of those applicants who show . Earlier findings were reinforced in complete USMA training and subsequent Regular Army officer careers. A number of instruments the United States Military Academy, initiated with improving selection procedures and with the Aptitude for the Service Rating potential that the More (ASK) da

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N AD- 432 078

3 RISK TAKING AND ACADEMIC SUCCESS AND THEIR RELATION TO AN OBJECTIVE MEASURE OF ACHIEVEMENT MOTIVATION,

Myers, Albert E. ; Nonr 295900 16P RB64 2 64 REPT. NO.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ACHIEVEMENT TESTS, MOTIVATION), (*MOTIVATION, ACHIEVEMENT TESTS), MEASUREMENT, PSYCHOLOGY

33

ACADEMIC SUCCESS, RISK IDENTIFIERS:

One was a correlational study dealing with problems indicated that the test was able to reproduce the results typically found with projective measures. laboratory study that focused on competitive risk taking. These data seemed to support the proposition that objective tests of achievement of academic achievement while the other was a Two studies using an objective test of Achievement Motivation with high school Ss motivation may be possible. (Author)

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grade officers. Continuing validity studies and extended follow-up research hold promise for provision of guidance to the USMA in evaluating

training given to cadets. (Author)

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DUNLAP AND ASSOCIATES INC SANTA MONICA CALIF

PROFICIENCY TEST FOR MISSILE TECHNICIANS MAINTAINING THE AN/SKQ-1 TELEMETERING GROUND STATION EQUIPMENT. VOLUME III. TECHNICAL REPORT,

Blanchard, R. E. ; Shoemaker, R. 86P FEB 64

64-37 MONITOR: ND 64-3 UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

TESTS), (*ACHIEVEMENT TESTS, NAVAL PERSONNEL, ACHIEVEMENT TESTS), (*ACHIEVEMENT TESTS, NAVAL PERSONNEL), (*NAVAL PERSONNEL, JOB ANALYSIS), (*GROUND SUPPORT EQUIPMENT, NAVAL PERSONNEL), TELEMETER SYSTEMS, TEST CONSTRUCTION (PSYCHOLOGY), SAMPLING, PERFORMANCE(HUMAN) DESCRIPTORS:

activity statements were developed to provide a means for investigating task interrelations and for use in effectiveness was treated as a function of the degree preparedness of Navy school graduates for fulfilling the requirements of their fleet jobs and scope of task, skill level required and use of test support equipment were developed to facilitate the collected from several fleet sources and from Navy school and were analyzed to identify task requirements imposed on the fleet technician. A contribution criterion. Tasks were then ordered on a continuum of contribution to mission success and to provide diagnostic feedback to curriculum evaluation appraisal efforts. Job task data were A proficiency test was constructed to evaluated performance of Naval technicians maintaining the determining sampling effectiveness. Several sampling guides related to mission contribution, defined to provide a quantitative means for describing the effectiveness of a given sampling AN/SKQ-1 telemetering ground station equipment. sampling plan was developed based on a mission representation and an index of uniqueness were of representation and the amount of redundancy mechanics of the sampling process. Sampling incurred to achieve hat level. An index of The test is to be used for evaluating the

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

AD- 431 938

BUCKNELL UNIV LEWISBURG PA

3 PERSONALITY CORRELATES OF FEAR OF FAILURE VS. NEED ACHIEVEMENT INDIVIDUAL. 1. VALUES SCALES,

Teevan, Richard C.

Hartsough, W. Ross : REPT. NO. 5 CONTRACT: Non-359101

PROJ: NR171 803

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOLOGY, TEST METHODS), FEAR, ACHIEVEMENT TESTS, ATTITUDES(PSYCHOLOGY), SEX, MOTIVATION

3

introductory psychology class, were administered the values differences between the fear of failure (FF) interactions were also studied. Forteen of sixteen directional predictions were bourne out for the FF male predicting to these values scales. Results pointed to the similarity of attitudinal patterns between FF males and n. Ach. females. The wenty-two males and thirty females, students in implications of the findings were discussed and individual as defined by the HP system, and the Scale (in Adorno, 1950) to test hypothesized need for achievement (n. Ach.) individual as (HP) system (Birney et al., 1961, 1962), the Allport-Vernon-Lindzey, ScTUDY OF Values TAT - Fantasy slides from the Mostile Press (1960) and the Levinson-Sanford et al. Fdefined by McClelland et al. (1953). Sex

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further research proposed. (Author)

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SEARCH CONTROL NO. ZOMOT DOC REPORT BIBLIOGRAPHY

BUCKNELL UNIV LEWISBURG PA

PERSONALITY CORRELATES OF THE FEAR OF FAILURE VS. NEED ACHIEVEMENT INDIVIDUAL. 2. A CLINICAL PICTURE, (U)

Teevan, Richard C. ;

Hartsough, W. Ross; REPT, NO. TR6 CONTRACT: Non-359101 PROJ: NR171 803 216

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONALITY, FEAR), (*FEAR, ACHIEVEMENT TESTS), (*ATTITUDES(PSYCHOLOGY), FEAR), BEHAVIOR, MEASUREMENT, THEORY, TABLES(DATA), GROUP DYNAMICS (U) IDENTIFIERS: FEAR OF FAILURE, HOSTILE PRESS, MINNESOTA MULTIPHASIC PERSONALITY INVENTORY, MMPI DESCRIPTORS:

the purpose of this paper is to predict to various clinical measures of mode and degree of adjustment Multiphasic personality inventory, the Allport + Allbort A-S Reaction Study, the James-Phares Scale, and Siegel's Manifest study further sex-differences within and between from the HP and n. Achievement systems, and to these systems. The four scales against which prediction will be made are the Minnesota Hostility Scale. (Author)

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SEARCH CONTROL NO. ZOMOT DOC REPORT BIBLIDGRAPHY

BUCKNELL UNIV LEWISBURG PA AD- 430 407

3 MEASUREMENT OF FEAR OF FAILURE IN RELATION TO A LEVEL OF ASPIRATION DEFENSE MEASURE,

Thomas, Carolyn ; Teevan, 15P Richard C. ;

Nonr3591 01 PROJ: NR171 803 REPT. NO.

Nonr359101

TASK:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*FEAR, MEASUREMENT), (*MOTIVATION, ACHIEVEMENT TESTS), EXPERIMENTAL DATA, ANXIETY, TABLES(DATA)
IDENTIFIERS: HOSTILE PRESS, SCORES

33

significantly related to either the Mostile Press or the discrepancy score measure of fear of failure. It was concluded that there is somewhat more support for the lower third of the nAch third, but that perhaps neither is actually a valid measure. Perhaps a separate system for measuring Mandler-Sarason Test Anxiety Questionnaire, and the French Test of Insight. Each was then given five trials of twenty shots each on a rifle task, answering LA questions before each middle thirds of the need achievement distribution were more defensive and scored higher on Hostile Press than the upper third. The AtkinsonLitwin measure of fear of failure was not distribution as the FF group than for the middle One hundred and five male Ss between the ages of fear of failure, such as the Hostile Press system, is necessary. (Author)

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PAGE

ZOMO7 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

BUCKNELL UNIV LEWISBURG PA

 $\widehat{\Xi}$ FEAR OF FAILURE AND THE ACHIEVEMENT SITUATION,

64 50P Birney, Robert C.; Birdick,

CONTRACT: Non-359101 PROJ: NR171 803

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

FESCRIPTORS: (*FEAR, ABNORMAL PSYCHOLOGY), (*PERSONALITY, ACHIEVEMENT TESTS), MOTIVATION, SOCIAL COMMUNICATION, TABLES(DATA), BEHAVIOR, PERFORMANCE(HUMAN), ANXIETY, EMOTIONS, HUMANS, STUDENTS
IDENTIFIERS: PERSONALITY TRAITS, SOCIAL ISOLATION DESCRIPTORS:

33

research into the complexities of achievement-fear of characteristics of previous systems of this type, and is +.55 over an eight month period for a population effects on aspiration, and further analysis of the written to pictures selected for their failure cue of the scoring system is being conducted, and the first test-retest reliability coefficient (rho) value. On the basis of the work presented here it determinants of the fantasy scores. Further study with proper experimental controls can be used for This report has described the development of the HosP scoring system for use with TAT stories has been possible to frame a program of research modification of scoring procedures remains to be directed to the study of motivation, situation done, but we feel that the HosP has now been of 10th grade males. It is likely that some to have essentially the same working failure relationships. (Author)

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

ILLINDIS UNIV URBANA

3 HIERARCHICAL FACTORS IN COURSE GRADES IN AN AVIATION HIGH SCHOOL

HUMPHREYS, LLOYD G.; OCT 62 1V CONTRACT: AF41 657 279

UNCLASSIFIED REPORT

3 DESCRIPTORS: *EDUCATION, ACHIEVEMENT TESTS, AIR FORCE, ANALYSIS OF VARIANCE, FACTOR ANALYSIS, STUDENTS

3 the expected subject-matter groupings, the most significant a clear-cut shop factor which appeared in use in a later study of the relationship of Air Force aptitude tests in high school achievement. Separate hierarchical analyses were made for course characterized both solutions, probably reflecting general academic ability. Other factors displayed Factor scores of high school grades were needed grades in the technical curriculum and in the mechanical curriculum. A large general factor both analyses. (Author)

SEARCH CONTROL NO. ZOMOT DOC REPORT BIBLIDGRAPHY

AD- 292 105

HAWAII UNIV HONDLULU

3 POWER, STRATEGY, AND THE FORMATION OF COALITIONS IN TRIADS UNDER FOUR INCENTIVE CONDITIONS

2

VINACKE, W. EDGAR;

NONR374802 REPT. NO.

UNCLASSIFIED REPORT

3 DESCRIPTORS: *BEHAVIOR, *GROUP DYNAMICS, ACHIEVEMENT TESTS, ADJUSTMENT (PSYCHOLOGY), EFFECTIVENESS, MEASUREMENT, REACTION (PSYCHOLOGY), REASONING

3 amount and character of bargaining, and a number of manifestations of strategy. Results indicate that the general style of play is similar under all incentives, with certain specific variations produced by the special problems posed by the incentive condition. The most striking behavior is associated with differences between exploitative (masculine) strength, and one member was all-powerful. Six of these patterns were adopted, in three successive series, making 18 games for each group. Data were collected from 30 groups of each sex, playing under one of four incentives, namely, game-by-game scoring, cumulative scoring, delayed payoff monetary reward, and immediate payoff monetary reward. Inter-sex A simple competitive board game was used to determine the characteristics of strategy manifested by three-person groups. Intra-member relationships in relative power were varied by the dra-ing of weights to establish conditions in which the three players were all-equal, one or two members were stronger but when any two exceeded the third in and inter-incentive comparisons were made in terms of kind and incidence of coalitions, deals reached, and accommodative (feminine) strategy.

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SEARCH CONTROL NO. ZOMOT DDC REPORT BIBLIDGRAPHY

AD- 291 838

AMHERST COLL MASS

MEASURING ELEMENTS OF NEED ACHIEVEMENT

3

BIRNEY, ROBERT C.; BURDICK, HARVEY; NOV 62 1V TEEVAN, RICHARD C.; CONTRACT: NONR230902

UNCLASSIFIED REPORT

3 DESCRIPTORS: *ACHIEVEMENT TESTS, *PSYCHOLOGICAL TESTS, ATTITUDES(PSYCHOLOGY), FACTOR ANALYSIS, MEASUREMENT, MOTIVATION, STUDENTS

SUMMARY REPORT ON VARIABLES AFFECTING ACHIEVEMENT SUCCESS/ FAILURE.

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIDGRAPHY

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PERSONNEL RESEARCH LAB LACKLAND AFB TEX

IMPORTANCE OF SITUATIONAL FACTORS IN THE MEASUREMENT OF OFFICER EFFECTIVENESS

VANASEK, FRANK J.; BOTTENBERG, ROBERT 2 JUL 62

UNCLASSIFIED REPORT

MESCRIPTORS: *OFFICER PERSONNEL, *PSYCHOLOGICAL TESTS, ACHIEVEMENT TESTS, ANALYSIS OF VARIANCE, CLASSIFICATION FACTOR ANALYSIS, JOB ANALYSIS, SELECTION (U) DESCRIPTORS:

3 nonperformance factors is removed, the reliability of military grade on effectiveness ratings is greatest of the three situational factors, but all contribute significantly. It is assumed that the the ratings is lowered, but relevance to differences performance affect the ratings, their influence should be taken into account. This study investigates the extent to which officer specialty, command assignment, and military grade affect distribution and reliability of effectiveness apportioned between performance and nonperformance and analysis of variance techniques to ratings of in job performance is increased. The influence of 1500 Air Force officers, variance of ratings was ratings. By applying multiple linear regression influences, including systematic selection for important instrument in management of officer personnel. If factors not related to job mission, assignment, and promotion. (Author) relationships come about through a number of factors. When the effects of the three The Officer Effectiveness Report is an

SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

AD- 283 842

LOCKHEED AIRCRAFT CORP MARIETTA GA

GROUP PERFORMANCE DURING FOUR-HOUR PERIODS OF CONFINEMENT

3

ALLUISI, EARL A.; HALL, THOMAS J.; 2 JUN 62

CHILES, W. DEAN; REPT. NO. TDR62 70 CONTRACT: AF33 616 7607

PROJ: AF-1710 MONITOR:

AMRL TDR-62-70

UNCLASSIFIED REPORT

3 *ACHIEVEMENT TESTS, *GROUP DYNAMICS DESCRIPTORS:

SIX N O GROUP PERFORMANCE DURING FOUR-HOUR PERIODS OF CONFINEMENT. TEST-REIEST RELIABILITY OF A BATTERY PERFORMANCE TASKS. INTERACTIONS AMONG CREWMEMBERS COOPERATION, TEMPORAL COORDINATION, AND EXCHANGES INFORMATION. PERFORMANCE IN TARGET IDENTIFICATION, VIGILANCE, WARNING-LIGHTS MONITORING, AND

ARITHMETIC COMPUTATION.

ZOMOZ SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

- 283 359 EDUCATIONAL TESTING SERVICE PRINCETON N J

SOME IMPLICATIONS OF TESTING PROCEDURES FOR AUTO-INSTRUCTIONAL PROGRAMMING

3

DESCRIPTIVE NOTE: Final rept. Jan-Dec 61, JUN 62 74P JACOBS, PAUL I.; PROJ: AF-1710 MONITOR: AMRL TDR-62-67 JUN 62 74P CONTRACT: AF33 616 7795

UNCLASSIFIED REPORT

3 DESCRIPTORS: *LEARNING, *PROGRAMMING (COMPUTERS), *TEACHING MACHINES, ACHIEVEMENT TESTS, APTITUDE TESTS, EFFECTIVENESS, TEST CONSTRUCTION (PSYCHOLOGY), TEST METHODS, TESTS, THEORY

measurement of both aptitude and achievement in order reveals important implications for programming from the older field of testing. Theory and experience in test construction can be especially useful in the to assign trainees to appropriate individual sequences of instruction. Possible applications resulting from examination of these and other issues are explored, and necessary further research is A systematic comparison of problems and procedures instructional subject matter, the writing of instructional frames, and the formal evaluation of selection of valid criteria for assessing the effectiveness of a program, the ordering of the program. Adaptive programming implies suggested. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

HARVARD UNIV CAMBRIDGE MASS AD- 282 421

VOCATIONAL SELF CONCEPTS AND HIGH SCHOOL ACHIEVEMENT

3

O' HARA, ROBERT P .: FEB 62 1V REPT. NO. TR195ICD 22 CONTRACT: NONR186631

UNCLASSIFIED REPORT

33 DESCRIPTORS: *APTITUDE TESTS, *EDUCATION, ACHIEVEMENT TESTS, ANALYSIS, INTELLIGENCE TESTS, STUDENTS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT

SELF-RATINGS OF APTITUDES BY HIGH SCHOOL STUDENTS FOUND RELATED TO VOCATIONAL DEVELOPMENTAL PROGRAMS BUT A HIGHER CORRELATION BETWEEN APTITUDE TEST AND ACHIEVEMENT.

PAGE

59

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 277 568

NATIONAL TRAINING LABS WASHINGTON D

ŝ SELECTION OF FEED-BACK INFORMATION AS A FUNCTION OF SITUATIONAL STRESS, NEED FOR ACHIEVEMENT, AND INTERPERSONAL AWARENESS

CONTRACT: NONR308800

SCHONFIELD, JACOB;

UNCLASSIFIED REPORT

DESCRIPTORS: ACHIEVEMENT TESTS, ANXIETY,
ATTITUDES(PSYCHOLOGY), FEEDBACK, LEARNING, PERSONALITY
TESTS, PSYCHOLOGICAL TESTS, SOCIOMETRICS
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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

AD- 276 923
PERSONNEL RESEARCH AND DEVELOPMENT CORP CLEVELAND OHIO

A PROCEDURE FOR THE EMPIRICAL VALIDATION OF CURRICULUM CONTENT

3

TAYLOR, ERWIN K.; ^ DEC 61

UNCLASSIFIED REPORT

DESCRIPTORS: *MILITARY TRAINING, *NAVAL PERSONNEL, *TRAINING, ACHIEVEMENT TESTS, EFFECTIVENESS, MAINTENANCE PERSONNEL, RELIABILITY, STATISTICAL ANALYSIS

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C AD- 276 622

DEVELOPMENT OF ACB AUTOMOTIVE INFORMATION AND CLERICAL SPEED TESTS, FORMS 3 AND 4

3

DESCRIPTIVE NOTE: Technical research rept., MAR 62 1V Helme, William H.; Graham,

Warren R. ; Anderson, Alan A. ; REPT. NO. APRO-TRR-1122 PROJ: DA-0-J-9560001

UNCLASSIFIED REPORT

3 ESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, CLASSIFICATION, DESIGN, MAINTENANCE PERSONNEL, MILITARY PERSONNEL, RELIABILITY, STANDARDIZATION, TEST CONSTRUCTION (PSYCHOLOGY) DESCRIPTORS:

DEVELOPMENT OF NEW FORMS OF TWO ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY CLERICAL SPEED TEST. STANDARDIZED AGAINST WHII ARMY POPULATION IN MENTAL ABILITY, AI-3 AND AI-4 SUFFICIENTLY RELIABLE, AND DIFFERENTIATED FROM VERBAL TEST. ACS-3 AND ACS-4 RELIABLE, YET SUBSTANTIALLY SHORTER.

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

GEORGE WASHINGTON UNIV ALEXANDRIA VA HUMAN RESOURCES RESEARCH OFFICE

AD- 276 115

IMPROVING FLIGHT PROFICIENCY EVALUATION IN ARMY HELICOPTER PILOT TRAINING

DESCRIPTIVE NOTE: Technical rept.,
MAY 62 1V GREER, GEORGE D. JR.; SMITH, WAYNE D.; 3

HATFIELD, JIMMY L.; EPT. NO. HUMRRO-TR-77 **DA44 188AR02** REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, *HELICOPTERS, MILITARY TRAINING, PILOTS, RELIABILITY, STANDARDIZATION

performance Description Records (PPDR) have proved useful in administering check rides in primary helicopter training. The system provides a means of diagnosing specific sources of a student's end-of-phase deficiencies, by the detailed recording of his flight performance. The report serves to standardize pilot proficiency evaluation through reducing subjective differences in scoring standardized and objective measures, which would also provide a diagnostic record of student performance. This report is considered to be of primary interest to those organizations and agencies concerned with helicopter pilot training. The Pilot The objective of this study was to develop a more reliable system of evaluating helicopter pilots' flight performance by putting emphasis on procedures. (Author)

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PAGE

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

PSYCHOLOGICAL RESEARCH ASSOCIATES INC ARLINGTON VA

3 DEVELOPMENT OF HUMAN PROFICIENCY AND PERFORMANCE MEASURES FOR WEAPON SYSTEMS TESTING

MARKS, MELVIN R.; MONITOR: ASD TR61 73

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, *JOB ANALYSIS, *MILITARY PERSONNEL, EFFECTIVENESS, MANDLING, WEAPONS(U)

UNCLASSIFIED

COC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 272 688 NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

TRAINING AND PROFICIENCY OF AVIATION STRUCTURAL MECHANICS. II. PROFICIENCY OF FIRST ENLISTMENT AVIATION MECHANICS

JONES, EARL I.; ABRAMS, ALVIN J.;

3

UNCLASSIFIED REPORT

DEC 61 1V REPT. NO. TB61 16

3 DESCRIPTORS: *MAINTENANCE PERSONNEL, ACHIEVEMENT TESTS, AVIATION PERSONNEL, MILITARY TRAINING, NAVAL PERSONNEL

3 information on the training, utilization, performance and progress of AM's during their first enlistment. The sample included personnel from 32 squadrons with overlapping structures and hydraulics duties throughout their first enlistment; AME's were utilized within the scope of their service rating; and as AM's progressed in time and rate they performed more duties, better, with less supervision, often reaching a level of independent trouble representing 11 squadron types, The primary indications were that fleet training facilities were commonly utilized to prepareAM's for their squadron duties; AMS's and AMH's were assigned to billets shooting performance within the last year of their enlistment aviation structural mechanics and their immediate supervisors were interviewed to provide Between July and November 1959, 242 first first enlistment. (Author)

ZOM07 DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

EDUCATIONAL TESTING SERVICE PRINCETON N J AD- 271 386

3 AN ANALYSIS OF THE EFFECTS OF REPETITIVE TESTING ON FIGURE MATRIX TEST SCORES

HELM, CARL E.; CONTRACT: NONR233800

UNCLASSIFIED REPORT

3 DESCRIPTORS: *ACMIEVEMENT TESTS, *APTITUDE TESTS, ANALYSIS OF VARIANCE, RELIABILITY, STATISTICAL ANALYSIS

3 part of the test, and (3) a relation between change in performance from the first part of a figure suggest that the first-half score might be the better measure, in that the correlations between the firstperformance on the first and last part gives negative average, 15.5 items were correctly answered out of the first 30 items, while 16.7 items were correctly answered out of the second 30 items. Results results by both the correlation and the analysis of higher than the correlations between the secondhalf somewhat higher than either part score, reflecting half score and class grades tended to be somewhat (2) performance on the initial part of a figure matrix test compared with performance on the last variance. Negligible correlations were noted between the difference score on the Figure Matrix related to achievement. A correlational analysis greater reliability. Relation between charge in practice performance on the Figure Matrix Test. matrix test to the last part and other measures An analysis of existing data was made as a preliminary investigation of (1) the effect of and an analysis of variance were made. On the score and grades. The total score correlated Test and grades. (Author)

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SEARCH CONTROL NO. ZOMO7 DOC REPORT BIBLIDGRAPHY

UTAH UNIV SALT LAKE CITY AD- 267 485

VARIABLES RELATED TO ACCURACY IN INTERPERSONAL

3 CLINE, VICTOR B.; RICHARDS, JAMES M. 2 PRECEPTION 61 No.

NONR 128804 CONTRACT: UNCLASSIFIED REPORT

DESCRIPTORS: *BEHAVIOR, *PERCEPTION, *REASONING, ACHIEVEMENT TESTS, COMPLEX VARIABLES, ERRORS, GROUP DYNAMICS, MOTION PICTURES, SOCIAL COMMUNICATION, STATISTICAL ANALYSIS, TESTS, TRAINING FILMS, VISUAL

3

indicate that differentiation among stimulus persons increases as the amount of information provided about general area of accuracy of interpersonal perception are presented. A special procedure, used in the individual studies, involves presenting standard stimulus persons through means of sound-color movies persons, and a third group knew only that the person first group were significantly superior both at rank of a spontaneous interview. Heterogeneous groups of subjects (or judges) view the films, and make a variety of judgements about the behavior, attitudes, and feelings of the persons seen (in the films). One group of S made their judgments after viewing the soundcolor movies, a second group made judgments knowing only the sex, age, marital acceptance of conventional religion and predicting whose responses they were predicting was an adult made their judgments on the basis of stereotypes. male or female. The last two groups, therefore, ordering the stimulus persons in terms of their status, and number of children of the stimulus exactly the responses of the stimulus persons. Results of a continuing investigation of the Results for Interpersonal Accuracy Variance Total Error Score indicate that Ss in the Results for Interpersonal Accuracy z and them increases. (Author)

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ZOMOZ DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

BUREAU OF NAVAL PERSONNEL WASHINGTON D C AD- 266 934

DEVELOPMENT OF THE OFFICER QUALIFICATION TEST. FORMS 7 AND 8

SMITH, ALLEN N.; GUTTMAN, ISAIAH; 61 1V TB61 14 SEP 61 REPT. NO. TE

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, DESIGN, NAVAL PERSONNEL, OFFICER PERSONNEL, SELECTION, STANDARDIZATION, TEST CONSTRUCTION (PSYCHOLOGY)

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

AD- 264 526

WASHINGTON UNIV SEATTLE

A GRADE PREDICTION SYSTEM PROGRAM FOR THE IBM TYPE 709

3

BURKET, GEORGE R.; CONTRACT: NONR47708

UNCLASSIFIED REPORT

3 DESCRIPTORS: *ACHIEVEMENT TESTS, *COMPUTERS, *DATA PROCESSING, *DIGITAL COMPUTERS, *PROGRAMMING (COMPUTERS), *RECORDS, ANALYSIS, MAGNETIC PROPERTIES, MATHEMATICAL PREDICTION, PUNCHED CARDS, SELECTION

AIR PROVING GROUND CENTER EGLIN AFB FLA

Performance Evaluation of Apprentice Aircraft and Missile Electrical Repairmen. Graduates of ATC Course N r. ABR42330.

3

McSheehy, Donald I. ; REPT. NO. APGC-TR-61-33 21P

UNCLASSIFIED REPORT

 $\hat{\boldsymbol{\varepsilon}}$ DESCRIPTORS: *AVIATION PERSONNEL, *GUIDED MISSILE PERSONNEL, *TRAINING, AIRCRAFT, EFFECTIVENESS, ELECTRONIC EQUIPMENT, GUIDED MISSILES, MAINTENANCE, MAINTENANCE, DESCRIPTORS:

in the areas of multiple alternator and generator power circuits. The present training gives greater emphasis to inspection procedures and to the internal Missile Electrical Repairmn, to perform the duties of their specialty. The performance of each apprentice was evaluated for a 12-week period during his first duty assignment. It was determined that 3 to 5 mo would be required for apprentices to develop job proficiency in their ASSIGNMENTS. eliminate this training and place emphasis on system functioning and trouble analysis. It is desirable that apprentices acquire greater proficiency in the basic manul techniques, including terminal wire replacement, wire splicing and tying, soldering, and construction and circuits of components than the job Intensive on-the-job training is necessary because analysis. This deficiency was particularly evident ability of apprentces grduated from Air Training Comand Course Nr ABR42330, Aircraft and of inadequate formal training in system trouble evaluation was conducted to determine the requires. The course should be revised to safteying. (Author)

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ZOMOZ SEARCH CONTROL NO. DOC REPORT SIBLIDGRAPHY

NAVAL TRAINING DEVICE CENTER PORT WASHINGTON N AD- 262 937

THE ROLE OF KNOWLEDGE OF RESULTS IN LEARNING: A SURVEY

3

Technical rept., REPT. NO. NAVTRADEVCEN-342-3 > DESCRIPTIVE NOTE: 9

UNCLASSIFIED REPORT

3 DESCRIPTORS: *BIBLIOGRAPHIES, *EDUCATION, *JOB ANALYSIS, *LEARNING, *REASONING, *STIMULATION(PHYSIOLOGY), ACHIEVEMENT TESTS, ANALYSIS, EFFECTIVENESS, LANGUAGE, MOTOR REACTIONS, PSYCHOMOTOR TESTS, SCHEDULING, TIME, TRAINING

accepting as established learning doctrine that which training specialists to consider possible interaction motivation, timing, type of information, specificity, and biasing effects in the application of traditional This survey attempts to effect a clarification of terminology, critical analysis, and generic overview of studies specifically concerned with knowledge of results and related learning factors. Included within this framework is a summary of the positions of leading theorists, with commentary relating the approaches to learning under specified conditions. the relationship between knowledge of results and evidence. The survey emphasizes the obligation of hypothetical to the applied. This review traces certain classical ASSUMPTIONS (relationship of divergent experimental evidence. An analysis of reinforcement to learning, etc.) and presents and other variables points out the hazard of may be based upon inadequate or inconclusive Author)

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AD- 257 428

ILLINOIS UNIV URBANA

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM

HUMPHREYS, LLOYD G.: DEC 60 1V CONTRACT: AF41 657 279

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, *INTELLIGENCE TESTS, *PSYCHOLOGICAL TESTS, RELIABILITY, STATISTICAL ANALYSIS, TESTS, TRAINING (U.

3 in equipercentile conversion tables for the aptitude indexes reflected the emphasis in this high school on This study examines the effect of training differences on scaling new forms of personnel tests a technical high school were given the test against airman population, showing that findings from these samples can be generalized to the Air Force for equivalence to previous forms. Three classes of addition, they took a recent form of the Airman Classification Battery. The ability range of these students corresponded closely to that of the input. Differences between sophomores and seniors nature of this particular high school curriculum mechanical training. This was interpreted as a joint effect of the nature of the tests and the which Air Force classification tests hav: been scaled, the General Classification Test. In

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

PERSONNEL RESEARCH AND DEVELOPMENT CORP CLEVELAND OHIO AD- 209 971

3 THE INFLUENCE OF RATING SCALE CONSTRUCTION UPON THE CHARACTERISTICS OF RATINGS RENDERED

TAYLOR, ERWIN K.; CONTRACT: Nonr-222100 2

UNCLASSIFIED REPORT

DESCRIPTORS: ACHIEVEMENT TESTS, RELIABILITY, TEST

3

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7	DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MD7
AD- 208 485 PRINCETON UNIV N J	AD- 206 947 APPLIED PSYCHOLOGICAL SERVICES VILLANOVA PA
LEARNING PARAMETERS, APTITUDES, AND ACHIEVEMENTS (U) JUN 58 1V STAKE, ROBERT E.;	POST TRAINING PERFORMANCE CRITERION DEVELOPMENT AND APPLICATION OF TBCL CRITERIA TO THE SESR PROGAM FGR THE AIR CONRTOLMAN AND THE PARACHUTE RIGGER RATINGS
UNCLASSIFIED REPORT	OCT 58 1V SIEGEL, ARTHUR; RICHLIN, MILTON; FEDERMAN, PHILIP; CONTRACT: NONR227900
DESCRIPTORS: ACHIEVEMENT TESTS, APTITUDE TESTS, FACTOR ANALYSIS, INTELLIGENCE TESTS (U)	UNCLASSIFIED REPORT
	DESCRIPTORS: ACHIEVEMENT TESTS, MAINTENANCE, MILITARY TRAINING, PARACHUTES, RELIABILITY
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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT GAIN IN PROFICIENCY AS A CRITERION IN TEST VALIDATION UNCLASSIFIED UNCLASSIFIED REPORT WASHINGTON UNIV ST LOUIS MO REPT. NO. TR4 CONTRACT: NONRB1602 AD- 144 639 SADACCA, ROBERT; CLARK, RUSSELL A.; CONTENT ANALYSIS OF ACHIEVEMENT MOTIVATION PROTOCOLS: DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT EDUCATIONAL TESTING SERVICE PRINCETON N J UNCLASSIFIED UNCLASSIFIED REPORT JUL 57 1V RICCIUTI, HENRY N.: CONTRACT: NONR69400

MANNING, WINTON H. : DUBOIS, PHILIP H. ;

3

3 DESCRIPTORS: *NAVAL PERSONNEL, ACHIEVEMENT TESTS, APTITUDE TESTS, MAINTENANCE PERSONNEL, MILITARY TRAINING, SELECTION, TEST METHODS 3

DESCRIPTORS: +LEARNING, ACHIEVEMENT TESTS, ATTITUDES(PSYCHOLOGY), PERSONALITY TESTS

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

GEORGE WASHINGTON UNIV ALEXANDRIA VA HUMAN RESOURCES RESEARCH OFFICE AD- 85 829

DEVELOPMENT OF PROFICIENCY TESTS FOR BASIC COMBAT AND LIGHT INFANTRY TRAINING

DESCRIPTIVE NOTE: Technical rept.,
JUL 55 64P BAKER, ROBERT A.; SCOTT, GUY; MACCASLIN,
EUGENE F.;
REPT. NO. HUMRRO-TR-19
CONTRACT: DA49 1060M1

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SUPPLEMENTARY NOTE: In cooperation with Human Resources Research Office, George Washington U., Washington, D. C.

DESCRIPTORS: *ACHIEVEMENT TESTS, MILITARY PERSONNEL, MILITARY TRAINING

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AN ANALYSIS OF TESTS OF PROFICIENCY FOR GUIDED MISSILE PERSONNEL - III. PATTERNS OF TROUBLE-SHOOTING BEHAVIOR AMERICAN INSTITUTES FOR RESEARCH PITTSBURGH PA

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GLASER, ROBERT; PHILLIPS, JOHN C.; AUG 54 23P CONTRACT: N7ONR37008 MONITOR: NAVPERS

1855-16

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DESCRIPTORS: (*GUIDED MISSILE PERSONNEL, ACHIEVEMENT TESTS), PERFORMANCE(HUMAN), BEHAVIOR, MAINTENANCE PERSONNEL IDENTIFIERS: TROUBLESHOOTING

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CONTRACT: N70NR37008 MONITOR: NAVPERS

18P

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UNCLASSIFIED REPORT

33 DESCRIPTORS: (*GUIDED MISSILE PERSONNEL, ACHIEVEMENT TEST), PERFORMANCE(HUMAN), TEST CONSTRUCTION(PSYCHOLOGY), MAINTENANCE PERSONNEL IDENTIFIERS: TERRIER, TROUBLESHOOTING

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SUPPLEMENTARY NOTE: In cooperation with Humn Resources Research Office, George Washington U., Contract DA 49-106-gm-1. DESCRIPTORS: (*ACHIEVEMENT TESTS, ARMY PERSONNEL), (*INFANTRY, ARMY TRAINING), PERFORMANCE(HUMAN), OPTIMIZATION, MOTIVATION, APTITUDE TESTS, AWARDS, GROUP DYNAMICS

raising the performance of basic trainees of Delow-average intelligene, and (2) a method of raising the motivation-to-learn of trainees of all aptitudes. Two experimental companies were given regular Basic Combat training. The method used to raise the performance of low-aptitude trainees included (1) placing them in squads containing more high-aptitude trainees than is normal, (2) having squads complete on weekly proficiency tests, above; that is, squad competition and reward based on use of squad competition and reward. These conditions increased proficiency by about 28 per cent regardless of the number of high-aptitude men in the squad, (2) The motivation-to-learn of trainees incentive to help the low men in their squads learn to raise the motivation-to-learn of trainees of all aptitudes can be increased decidedly by the and (3) rewarding winning squads-not individuals. Thus high-aptitude men presumably had a strong weekly tests. The principal findings of the study benefit from training with high-aptitude men. The more for the weekly competitions. The method used This study was designed to test (1) a method of proficiency of low-aptitude men varied little. aptitude levels consisted of (2) and (3) are: (1) Low-aptitude men appear not to n the experimental companies. In fact, of all

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UNCLASSIFIED REPORT

 $\widehat{\Xi}$ DESCRIPTORS: *APTITUDE TESTS, ACHIEVEMENT TESTS, EFFECTIVENESS, NAVAL PERSONNEL, OFFICER PERSONNEL, SELECTION

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DESCRIPTORS: *APTITUDE TESTS, ACHIEVEMENT TESTS, EFFECTIVENESS, NAVAL PERSONNEL, OFFICER PERSONNEL, SELECTION

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RB51-11

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DESCRIPTORS: *APTITUDE TESTS, ACHIEVEMENT TESTS, EFFECTIVENESS, NAVAL PERSONNEL, OFFICER PERSONNEL, SELECTION

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DESCRIPTORS: *ACHIEVEMENT TESTS, *OFFICER PERSONNEL, *PERSONALITY TESTS, STATISTICAL ANALYSIS, TEST METHOD(M)

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DESCRIPTORS: ACHIEVEMENT TESTS, ELECTRONIC EQUIPMENT, MAINTENANCE, MAINTENANCE PERSONNEL

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DESCRIPTORS: *ACHIEVEMENT TESTS, *NAVAL PERSONNEL, *SUBMARINE PERSONNEL, EFFECTIVENESS

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DESCRIPTORS: *ACHIEVEMENT TESTS, *MAINTENANCE PERSONNEL, Airborne, Design, Electrical Equipment, Maintenance (m)

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AD- 018 612
*INSTITUTE FOR RESEARCH IN HUMAN RELATIONS WASHINGTON D C

DEVELOPMENT OF A JOB SAMPLE TROUBLE-SHOOTING EXAMINATION D- 026 472

* * *

*LOCKHEED AIRCRAFT CORP MARIETTA GA

TDR62 70
GROUP PERFORMANCE DURING FOUR-HOUR PERIODS OF CONFINEMENT
(AMRL-TDR-62-70)
AD- 283 842

*LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF LMSC-A908290
INVESTIGATION OF CAPER
(COMPUTER AIDED PATTERN EVALUATION
AND RECOGNITION) TECHNIQUES USING
NCAT (NAVY COLLEGE APTITUDE TEST)
AND BTB-7 (BASIC TEST BATTERY 7)
DATA TO FORECAST SCHOOL

*MICHIGAN UNIV ANN ARBOR

AD- 659 525

TR-2
EFFECTS OF RACE OF TESTER,
APPROVAL-DISAPPROVAL AND NEED ON
NEGRO CHILDREN'S LEARNING.
AD- 659 052

*MICHIGAN UNIV ANN ARBOR DEPT OF PSYCHOLOGY SENTENCE LENGTH AND SENTENCE RETENTION IN THE FREE-LEARNING SITUATION, (AFOSR-67-2235) AD- 658 932 *MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

* * *

TR-3003
A Comparison on the Rasch Item Probability with Three Common Item Characteristics as Criteria for Item Selection.

TR-3004 The Equivalence of Semantic and

> 0-5 UNCLASSIFIED

ZOMOZ

フマスースコミ

Figural Test Presentation of the Same Items. AD- 738 830 MINNESOTA UNIV MINNEAPOLIS DEPT OF * * * PSYCHOLOGY

A Model for Psychometrically Distinguishing Aptitude from AD- 751 030 3007

* * *

The Stratfield Adaptive Computerized Ability Test. RR-73-3 AD- 768 376

Empirical and Simulation Studies of Flexilevel Ability RR-75-3 AD-A013 185 lesting.

Effects of Immediate Knowledge of Results and Adaptive Testing on Ability Test Performance. RR-76-3 AD-A027 147

Psychological Effects of Immediate Knowledge of Results and Adaptive Ability Testing. * * * RR-76-4 AD-A027 170

* * *

Functions of Multiple-Choice and A Comparison of Information Free-Response Vocabulary Items. RR-77-2 AD-A039 255

* * *

Calibration of an Item Pool for the Adaptive Measurement of Achievement. RR-77-5

An Adaptive Testing Strategy for Achievement Test Batteries. RR-77-6

AD-A046 062

Conventional and Adaptive Tests in An Information Comparison of the Measurement of Classroom Achievement. RR-77-7

AD-A047 495

*MISSOURI UNIV-COLUMBIA TAILORED

TESTING RESEARCH LAB

Calibration Using the One and Three Parameter Logistic Models: A Ability Estimation and Item comparative Study. RR-77-1 AD-A047 943

WASHINGTON *NATIONAL TRAINING LABS

0

SELECTION OF FEED-BACK INFORMATION AS A FUNCTION OF SITUATIONAL STRESS, NEED FOR ACHIEVEMENT, AND INTERPERSONAL AWARENESS

*NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA

FLIGHT TRAINING AS PREDICTORS OF FLIGHT SUCCESS. ACADEMIC GRADES IN PRIMARY SR-66-3 AD- 635 304 *NAVAL MEDICAL RESEARCH LAB NEW LONDON

COMPARISON OF RESULTS OBTAINED ON THE EXPERIMENTAL FORM OF THE OFFICER MECHANICAL APTITUDE TEST, FORM X-1 (NAVPERS-16640) WITH (1) RESULTS ON THE OFFICER QUALIFICATION TEST, FORM 3, (NAVPERS-16563) AND (2) GRADES IN SUBMARINE SCHOOL, MRL-43

*NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO CALIF

Learning Monitoring and Evaluating Effects of Establishing a Conceptualization Context for SRR-72-4 AD- 726 690

of Fleet and Recruit Input to Class A Comparison of the Performance 'A' Schools. STB-72-1 AD- 728 027

*NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF AN EVALUATION OF VARIOUS MEASURES OF HIGH SCHOOL PERFORMANCE IN PREDICTING COLLEGE ACHIEVEMENT FOR FRESHMAN NROTC REGULAR AD- 619 173 STUDENTS

ELECTRONICS TECHNICIAN TRAINING PROGRAM. III. COURSE EVALUATION A PERFORMANCE-ORIENTED INSTRUMENTS AND PROCEDURES. NPRA-SRR-68-1 AD- 658 316

VALIDATION OF THE DIAL AND TABLE READING TEST AND PATTERN COMPREHENSION TEST. * * NPRA-STB-67-14 AD- 659 289

EXPERIMENTAL ELECTRONICS TECHNICIAN THE RELATIONSHIP OF READING ABILITY TO ACHIEVEMENT IN AN SRM-66-37 AD- 634 838

NAVAL KNOWLEDGE AS A PREDICTOR OF SERVICE TENURE AMONG NROTC OFFICERS. SRR-67-5

DEVELOPMENT AND PRELIMINARY EVALUATION OF THE U. S. NAVY AUTOMOTIVE KNOWLEDGE TEST. * STB-66-20 AD- 627 844 AD- 640 067

AVIATION STRUCTURAL MECHANICS. II. PROFICIENCY OF FIRST ENLISTMENT TRAINING AND PROFICIENCY OF AVIATION MECHANICS TB61 16 AD- 272 688

* * *

*NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

STRUCTURED-OBJECTIVE RORSCHACH TEST POSSIBLE EXISTENCE OF AN EFFECT OF SERVICE TENURE UPON PERSONALITY CHARACTERISTICS AS MEASURED BY THE AN INVESTIGATION OF THE 475 386 SORT

Predictors of Academic Success Communications Management Curriculum of the U.S. Naval of Graduate Students in the Postgraduate School. AD- 783 810

Pupil Diameter Versus Task AD- 787 375 Layout

*NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

SUCCESS IN NAVAL AVIATION TRAINING, (NAVMED-MROO5-13-3003) AD- 434 922 PERSONALITY ORIENTATION AND

*NAVAL SUBMARINE MEDICAL CENTER GROTON

TEN POINT WEIGHTING WITH THE IBM-805 TEST SCORING MACHINE.

*NAVAL TRAINING DEVICE CENTER PORT WASHINGTON N

NAVTRADEVCEN-342-3
THE ROLE OF KNOWLEDGE OF
RESULTS IN LEARNING: A SURVEY AD- 262 937

PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR THE ALERTNESS INDICATOR. SPECDEVCEN-58-2-11
APPLICATION OF ELECTRO-AD- 639 045

.

RESEARCH AND DEVELOPMENT SPECDEVCEN-58-3-1 * * * READING ASSESSOR. AD- 639 046

9

*NAVAL TRAINING EQUIPMENT CENTER ORLANDO FLA

The Evaluation of Two Automated Systems for Teaching Typewriting. NAVTRAEQUIPC-IH-220 AD- 910 397

SAN DIEGO CALIF Comparative Racial Analysis of Enlisted Advancement Exams: Item *NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DI NPRDC-TR-77-16

Differentiation.

AD-A035 672

Reading Retention as a Function of Method for Generating Interspersed Questions. NPRDC-TR-77-29 AD-A038 536

*PERSONNEL RESEARCH AND DEVELOPMENT CORP CLEVELAND OHIO

CONSTRUCTION UPON THE CHARACTERISTICS OF RATINGS RENDERED THE INFLUENCE OF RATING SCALE AD- 209 971

A PROCEDURE FOR THE EMPIRICAL VALIDATION OF CURRICULUM CONTENT AD- 276 923 LACKLAND AFB

*PERSONNEL RESEARCH LAB

IMPORTANCE OF SITUATIONAL FACTORS IN THE MEASUREMENT OF OFFICER EFFECTIVENESS AD- 289 873

DEVELOPMENT OF A COUNSELING FORM FOR USE BY SUPERVISING * * * AD- 603 109 OFFICERS,

*PRINCETON UNIV N J

LEARNING PARAMETERS, APTITUDES, * AND ACHIEVEMENTS AD- 208 485

THE IMPORTANCE OF PROBLEM HETEROGENEITY TO PROGRAMMED AD- 601 210 LEARNING.

*PSYCHOLOGICAL RESEARCH ASSOCIATES INC ARLINGTON VA

DEVELOPMENT OF HUMAN PROFICIENCY AND PERFORMANCE MEASURES FOR WEADON SYSTEMS TESTING (ASD-TR61 733) AD- 272 975

*PSYCHOLOGICAL RESEARCH SERVICE INC * * * AUSTIN TEX

DEVELOPMENT OF A COUNSELING FORM FOR USE BY SUPERVISING OFFICERS. ND- 603 109

*RAND CORP SANTA MONICA CALIF

GIFTEDNESS AND ACHIEVEMENT IN SPECIAL PROGRAM, P-3495 AD- 644 558

<

Performance Contracting in The RAND/HEW Study of Educat ion, P-4558 AD- 731 248

* * *

Project R-3 Allocation of Students Among Groups, P-4584 AD- 738 040 Subjective Scaling of Student Performance, AD- 738 044

Going Beyond the Mean in Educational Evaluation, * * * AD- 786 579 P-5184

for Doctor Fox, Discriminant Analysis and Classification of Teaching Effectiveness using Student Ratings: The Search P-5600 AD-A032 091

* * *

Directional Bias in Standarized Achievement Tests: The Case of Issues of Reliability and P-5689 AD-A037 926 *ROME AIR DEVELOPMENT CENTER GRIFFISS AFB N Y

AD- 800 078 RADC-TR-66-378

A Study of the Effects of Shift Operations on Student Achievement in Electronics Training. *RUTGERS - THE STATE UNIV BRUNSWICK

AD- 726 525

SAINT LOUIS UNIV

CRITERION MEASURES FOR USMC JUNIOR 9 STATISTICAL DESCRIPTION

*SCHOOL OF AEROSPACE MEDICINE BROOKS

A Note on the Relationship between n Ach and Uric Acid. SAM-TR-76-210 AD-A030 516

*STANFORD UNIV CALIF SCHOOL OF EDUCATION

* * *

Cognitive Abilities and Cognitive Correlation of Selected Processing Parameters: an Exploratory Study. AD-A050 774 TR-3

*STATE UNIV OF NEW YORK ALBANY * *

CHROMATIC VS ACHROMATIC PICTURES IN THE SCORING OF NEED FOR ACHIEVEMENT AND THE HOSTILE PRESS MEASURE OF FEAR OF FAILURE. TR-33

AD- 636 988

*TEXAS CHRISTIAN UNIV FORT WORTH INST FOR THE STUDY OF COGNITIVE SYSTEMS

Differences in Schematic Concept Some Aspects of Individual (HEL-TM-9-72) Formation. AD- 744 781

APPLIED EXPERIMENTAL PSYCHOLOGY MEDFORD MASS *TUFTS COLL

PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR APPLICATION OF ELECTRO-THE ALERTNESS INDICATOR.

(SPECDEVCEN-58-2-11) AD- 639 045

RESEARCH AND DEVELOPMENT OF (SPECDEVCEN-58-3-1) READING ASSESSOR AD- 639 046 *TUFTS UNIV MEDFORD MASS PSYCHOLOGICAL RESEARCH

THE EFFECT OF MAGNIFICATION ON II. PERCEPTUAL VISUAL TASKS. INTEGRATION, AD- 673 316 *UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES ELECTRONICS PERSONNEL RESEARCH GROUP

POTENTIAL USES OF COMPUTERS AS TEACHING MACHINES, AD- 483 974

COMPUTER PERSONNEL SELECTION AND CRITERION DEVELOPMENT: III. THE BASIC PROGRAMMING KNOWLEDGE TR-49

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES ENGINEER WATERWAYS EXPERIMENT STATION

THE AUTOMASTS: AN AUTOMATICALLY-RECORDING TEST OF ELECTRONICS TROUBLE SHOOTING AD- 043 837

*URS/MATRIX RESEARCH CO FALLS CHURCH

Performance Test Administrator's Manual and Text Subject's Tests for Electronic Maintenance Instructions for Criterion Referenced Job Task Performance Evaluating Maintenance

(AFHRL-TR-74-57(II)-PT-2) AD-A005 785

***UTAH UNIV SALT LAKE CITY** . . .

VARIABLES RELATED TO ACCURACY IN INTERPERSONAL PRECEPTION AD- 267 485

*WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

MEASUREMENT OF ACHIEVEMENT MOTIVATION IN ARMY SECURITY AGENCY FOREIGN LANGUAGE CANDIDATES,

*WASHINGTON UNIV SEATTLE

A GRADE PREDICTION SYSTEM PROGRAM FOR THE IBM TYPE 709 AD- 264 526 *

AD- 673 967

TR-71-29

Expectancy Theory Predictions of Academic Performance and Satisfaction.

AD- 731 081

*WASHINGTON UNIV ST LOUIS MO

GAIN IN PROFICIENCY AS A CRITERION IN TEST VALIDATION AD- 144 639 DEPT OF *MASHINGTON UNIV ST LOUIS MO **PSYCHOLOGY**

SOME NON-INTELLECTUAL PREDICTORS OF CLASSROOM SUCCESS. AD- 805 310 TR-10

*WEST TEXAS STATE UNIV

SOME INTERACTIONS BETWEEN
INDIVIDUAL DIFFERENCES AND MODES OF
INSTRUCTION.
(AMRL-TR-65-228)
AD- 631 138

0-9 UNCLASSIFIED

ZOMO2

SUBJECT INDEX

POPULATION IN MENTAL ABILITY, AI-3 AND AI-4 SUFFICIENTLY RELIABLE, AND DIFFERENTIATED FROM VERBAL TEST. ACS-3 AND ACS-4 RELIABLE, YET SUBSTANTIALLY STANDARDIZED AGAINST WWII ARMY

•ACHIEVEMENT TESTS
DEVELOPMENT OF PRACTICAL
PERFORMANCE MEASURES. VOLUMES I AND

GROUP PERFORMANCE DURING FOUR-IR PERIODS OF CONFINEMENT. TEST-RETEST

TEMPORAL COORDINATION, TECHNORS OF TARGET INFORMATION.
PERFORMANCE IN TARGET IDENTIFICATION, VIGILANCE, WARNING-LIGHTS MONITORING, CODE-LOCK PROBABILITY MONITORING, CODE-LOCK ARITHMETIC PERFORMANCE BATTERY OF SIX TASKS. INTERACTIONS AMONG CREWMEMBERS IN COOPERATION, SOLVING, AND COMPUTATION.

DEVELOPMENT OF PROFICIENCY TESTS FOR BASIC COMBAT AND LIGHT INFANTRY TRAINING*

STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR

A COMPARISON BETWEEN RATED AND TESTED ABILITY TO DO CERTAIN JOB

DEVELOPMENT OF A JOB SAMPLE TROUBLE-SHOOTING EXAMINATION+

AD- 026 472

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM*

ND- 085 829

SUMMARY REPORT ON VARIABLES AFFECTING ACHIEVEMENT SUCCESS/FAILURE. AD- 291 838 AD- 283 842

Performance Test Administrator's Manual and Text Subject's Instructions for Criterion Referenced Job Task Performance Tests for Electronic Maintenance.* Pupil Diameter Versus Task Evaluating Maintenance AD- 787 375 Layout.*

Empirical and Simulation Studies of Flexilevel Ability Testing.* AD-A013 185

DEVELOPMENT OF HUMAN PROFICIENCY AND PERFORMANCE MEASURES FOR WEAPON SYSTEMS TESTING*

STANDARDIZATION OF HELICOPTER PROFICIENCY EVALUATION REDUCTION OF

REPETITIVE TESTING ON FIGURE MATRIX

TEST SCORES*

AN ANALYSIS OF THE EFFECTS OF

AD- 266 934

QUALIFICATION TEST. FORMS 7 AND 8+

DEVELOPMENT OF THE OFFICER

A GRADE PREDICTION SYSTEM PROGRAM FOR THE 18M TYPE 709*

ND- 257 428

esearch on Assessing Human Abilities.* 4D-A015 027

SUBJECTIVE SCORING
PROCEDURES. THE PILOT PERFORMANCE
DESCRIPTION RECORDS AS AN INDEX OF
PERFORMANCE DEFICIENCIES. 20

DEVELOPMENT OF NEW FORMS OF TWO

ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY

CLERICAL SPEED TEST.

of Results and Adaptive Testing on Biosystems General Information Effects of Immediate Knowledge Ability Test Performance.* Test: Form B.+ AD-A018 978

Psychological Effects of AD-A027 147

Immediate Knowledge of Results and Adaptive Ability Testing. . AD-A027 170

Relationship between n Ach and Uric Reprint: A Note on the

Comparative Racial Analysis of Enlisted Advancement Exams: Item Differentiation.* ND-A030 516

Procedures for Validating Skill Qualification Tests, . ID-A035 672 AD-A036 997

Directional Bias in Standarized Achievement Tests: The Case of Issues of Reliability and

Calibration of an Item Pool for the Adaptive Measurement of Achievement.* AD-A044 828 ND-A037 926

An Adaptive Testing Strategy for Achievement Test Batteries.* AD-A046 062

Conventional and Adaptive Tests An Information Comparison of the Measurement of Classroom Achievement. +

5

Ability Estimation and Item Calibration Using the One and Three Parameter Logistic Models: A comparative Study. * ND-A047 943

about the Effects of Guessing on Mathematical Considerations ANALYSIS OF VARIANCE Test Variance, * AD- 749 883

TRAINING ACHIEVEMENT IN BASIC COMBAT SQUADS WITH CONTROLLED APTITUDE. ARMY PERSONNEL

security agency foreign language achievement motivation in Army Reprint: Measurement of AD- 073 777

candidates. ND- 623 041 BIBLIOGRAPHIES

Psychological Tests. Volume I. A. Achievement Tests. B. Sychomotor Tests.* AD- 760 900

COMPUTERS

The Stratfield Adaptive Computerized Ability Test.+ AD- 768 376

A COMPARISON OF FOUR MODELS FOR MAKING PREDICTIONS ACROSS CORRELATION TECHNIQUES INSTITUTIONS, * ND- 673 967

EFFECTIVENESS

Measured Mental Ability, Service School Achievement and Performance,* ND- 720 359

A Comparison of the Performance of Fleet and Recruit Input to Class 'A' Schools.*

Common Item A Comparison on the Rasch Item Probability with Three Common Item Characteristics as Criteria for Item Selection.*

ELECTRONIC TECH 212

electrical/electronic test battery. Development of

Effect of Anxiety, Response Mode, and Subject Matter Familiarity on Achievement in Computer-Assisted Learning.* AD- 738 034

A Model for Psychometrically Distinguishing Aptitude from

Basic military knowledge in the MILITARY PERSONNEL AD- 480 323

MILITARY REQUIREMENTS
COURSE ACHIEVEMENT OF STUDENTS
WITH UNSATISFACTORY ACADEMIC
AVERAGES IN BASIC ELECTRONICS.*

RISK TAKING AND ACADEMIC SUCCESS AND THEIR RELATION TO AN OBJECTIVE MEASURE OF ACHIEVEMENT MOTIVATION,* AD- 432 078 MOTIVATION

technicians maintaining the AN/SKQ-Proficiency test for missile 1 telemetering ground station NAVAL PERSONNEL

of high school performance in predicting college achievement for freshman NROTC REGULAR STUDENTS. Evaluation of various measures equipment. AD- 619 173

ACADEMIC GRADES IN PRIMARY FLIGHT TRAINING AS PREDICTORS OF FLIGHT SUCCESS.* NAVAL TRAINING ND- 635 304

Development of a counseling form for use by supervising officers. OFFICER PERSONNEL AD- 603 109

Reprint: Confidence, correctness, and difficulty with non-psychophysical comparative PERFORMANCE (HUMAN)

A Success Prediction Equation for the Intern fraining Center. + PREDICTIONS

and other correlates of criticalness response style at the achievement test of report writing Difficulty of items on an PSYCHOLOGICAL TESTS item level.

AD- 600 702

Expectancy Theory Predictions of Academic Performance and Satisfaction.* STUDENTS

Subjective Scaling of Student Performance, * ND- 738 044

Training Evaluation and Student Achievement Measurement: A Review of the Literature, * 4D- 747 040

Development and preliminary evaluation of the U. S. Navy TEST CONSTRUCTION (PSYCHOLOGY) Maximizing the automotive knowledge test. AD- 627 844 Reprint:

Relative Test Lengths a Test Battery as a for a Fixed Total Testing Time. Validity of Function of

The Equivalence of Semantic and Figural Test Presentation of the Same Items. . TEST METHODS AD- 738 830

proficiency scores to learning time Test of a method for converting TRAINING

Coloring Naming Interference in Monolinguals and Bilinguals with matching Interfering and naming WORD ASSOCIATION Languages.*

D-2 UNCLASSIFIED

Immediate Knowledge of Results and Psychological Effects of Idaptive Ability Testing.* ADAPTATION

An Adaptive Testing Strategy for Achievement Test Batteries.* AD-A046 062 *ADAPTIVE SYSTEMS

Simulated and Empirical Studies of Flexilevel Testing in Air Force Technical Training Courses.* ADAPTIVE TRAINING AD-A050 829

Rank on Learning and Perception of Basic Airmen Taught through the Effect of Instructor Military Medium of Television.* *AIR FORCE PERSONNEL AD- 763 705 LEARNING

Close Support Rockets and *ANTITANK AMMUNITION TEST METHODS Missiles.* AD- 723 025

INTERRELATIONSHIPS BETWEEN
APTITUDE TESTS SCORES, PERFORMANCE
IN SUBMARINE SCHOOL, AND SUBSEQUENT
PERFORMANCE IN SUBMARINES AS
DETERMINED BY RATINGS AND TESTS—
RESEARCH ON THE DEVELOPMENT OF
SHIPBOARD PERFORMANCE MEASURES* *APTITUDE TESTS ND- 045 271

REPORT ON THE VALIDATION OF TESTS AGAINST FIRST AND SECOND TERM GRADES AND QUALITY-POINT RATIOS AT THE U.S. NAVAL POST-GRADUATE SCHOOL (JULY 1948 TESTING)* 1950 FOR PREDICTING AVERAGE GRADES FOR THE FIRST TWO TERMS AT THE U.S. NAVAL POSTGRADUATE SCHOOL* AD- 072 203 VALIDITIES OF TESTS GIVEN IN 10- 072 201

VALIDITIES OF TESTS GIVEN IN JULY 1948 FOR PREDICTING FIRST YEAR AVERAGE GRADES AT THE U.S. NAVAL POSTGRADUATE SCHOOL+ AD- 072 204

FURTHER STUDIES OF THE VALIDITY DE COMPONENTS OF THE U.S. NAVAL POSTGRADUATE SCHOOL TEST* AD- 072 205

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM* AD- 257 428

AN ANALYSIS OF THE EFFECTS OF REPETITIVE TESTING ON FIGURE MATRIX TEST SCORES* AD- 271 386

DEVELOPMENT OF NEW FORMS OF TWO ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY CLERICAL SPEED TEST. STANDARDIZED AGAINST WWII ARMY

POPULATION IN MENTAL ABILITY, A1-3
AND A1-4 SUFFICIENTLY RELIABLE,
AND DIFFERENTIATED FROM
VERBAL TEST. ACS-3 AND ACS-4
RELIABLE, YET SUBSTANTIALLY SELF-RATINGS OF APTITUDES BY SH SCHOOL STUDENTS FOUND SHURTER. HIGH

DEVELOPMENTAL PROGRAMS BUT A HIGHER CORRELATION BETWEEN APTITUDE TEST AND ACHIEVEMENT. Calibration Using the One and Three Ability Estimation and Item Parameter Logistic Models: comparative Study.* ND- 282 421

Effectiveness of Selection and Classification Testing. * ARMY PERSONNEL AD- 768 168

AD-A047 943

A Model for Psychometrically Distinguishing Aptitude from Ability. * CULTURE

AD- 751 030

Measured Mental Ability, Service School Achievement and Performance, * EFFECT I VENESS

AD- 720 359

*ARMY PERSONNEL

Effectiveness of Selection and Classification Testing. . APTITUDE TESTS AD- 768 168

Attrition in Ordnance School Courses.* AD- 751 781 ATTRITION

Basic military knowledge in the security agency foreign language achievement motivation in Army Reprint: Measurement of MILITARY RESERVES Army reserve. AD- 480 323 SELECT ION

Test and Evaluation of Training Extension Course (TEC).* *ARMY TRAINING AD- 784 200

candidates.

AD- 623 041

VOCATIONAL

RELATED TO

The Acquisition and Retention of Visual Aircraft Recognition AD-A035 863

security agency foreign language achievement motivation in Army Measurement of Reprint: candidates. AD- 623 041 LANGUAGE

COURSE ACHIEVEMENT OF STUDENTS WITH UNSATISFACTORY ACADEMIC AVERAGES IN BASIC ELECTRONICS. PSYCHOLOGICAL TESTS

UNCLASSIFIED

ZOMO2

AD- 633 165

*ARTILLERY ROCKETS
TEST METHODS

TEST METHODS Close Support Rockets and Missiles.* AD- 723 025

*ATTENTION MONITORS

APPLICATION OF ELECTRO-PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR THE ALERTNESS INDICATOR.*

ATTITUDES (PSYCHOLOGY)

Personality correlates of the failure vs. need achievement individual; a clinical picture.

LEARNING EFFECTS OF RACE OF TESTER, APPROVAL-DISAPPROVAL AND NEED NEGRO CHILDREN'S LEARNING.* AD- 659 052

č

*ATTRITION
ARMY PERSONNEL
Attrition in Ordnance School
Courses.*
AD- 751 781

*AUDITORY PERCEPTION
SPECH RECOGNITION
A STUDY OF PERCEPTUAL
RECOGNITION IN TWO SENSE

*AVIATION PERSONNEL
Performance Evaluation of
Apprentice Aircraft and Missile
Electrical Repairmen. Graduates of
ATC Course N r. ABR42330.*

AVAL TRAINING PERSONALITY ORIENTATION AND

SUCCESS IN NAVAL AVIATION TRAINING;*
AD- 434 922

*BEHAVIOR
VARIABLES RELATED TO ACCURACY IN
INTERPERSONAL PRECEPTION*
AD- 267 485
POWER, STRATEGY, AND THE

POWER, STRATEGY, AND THE FORMATION OF COALITIONS IN TRIADS UNDER FOUR CONDITIONS.

THEORY
A Theory of Achievement
Behavior,*
AD- 732 381

*BIBLIOGRAPHIES
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY*
AD- 262 937

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Psychological Tests. Volume I.
A. Achievement Tests. B.
Psychomotor Tests.*
AD- 760 900

*CHILDREN
INTELLIGENCE TESTS
GIFTEDNESS AND ACHIEVEMENT IN
SPECIAL PROGRAM,*
AD- 644 558

*COMPUTER AIDED INSTRUCTION
Simulated and Empirical Studies
of Flexilevel Testing in Air Force
Technical fraining Courses.*
AD-A050 829

*COMPUTER PERSONNEL
SELECTION
COMPUTER PERSONNEL SELECTION AND
CRITERION DEVELOPMENT: III. THE
BASIC PROGRAMMING KNOWLEDGE TEST.*
AD- 636 988

*COMPUTER PROGRAMMING PSYCHOLOGICAL TESTS

COMPUTER PERSONNEL SELECTION AND CRITERION DEVELOPMENT: III. THE BASIC PROGRAMMING KNOWLEDGE TEST. * AD- 636 988

*COMPUTERS
A GRADE PREDICTION SYSTEM
PROGRAM FOR THE IBM TYPE 709*
AD- 264 526

*CONTRACTS
EDUCATION
The RAND/HEW Study of
Performance Contracting in
Education,*

Education.*

AD- 731 248

*CORRELATION TECHNIQUES

ACHIEVEMENT TESTS

A COMPARISON OF FOUR MODELS FOR MAKING PREDICTIONS ACROSS

INSTITUTIONS.*

AD- 673 967

DATA PROCESSING A GRADE PREDICTION SYSTEM PROGRAM FOR THE IBM TYPE 709 AD- 264 526

*DIGITAL COMPUTERS

A GRADE PREDICTION SYSTEM PROGRAM FOR THE IBM TYPE 709*
AD- 264 526
TEACHING MACHINES
Potential use of computers teaching machines.
AD- 483 974

*DISCRIMINATE ANALYSIS
Discriminant Analysis and
Classification of Teaching
Effectiveness using Student
Ratings: The Search for Doctor
Fox.*

*EDUCATION
THE ROLE OF KNOWLEDGE OF RESULTS
IN LEARNING: A SURVEY*
AD- 262 937

D-4 UNCLASSIFIED ZOMO7

DEVELOPMENTAL PROGRAMS BUT A HIGHER SCHOOL STUDENTS FOUND SELF-RATINGS OF APTITUDES BY VOCATIONAL CORRELATION BETWEEN APTITUDE RELATED TO AD- 282 421

HIERARCHICAL FACTORS IN COURSE GRADES IN AN AVIATION HIGH

Going Beyond the Mean in Educational Evaluation, * AD- 294 814 AD- 786 579 SCHOOL

Performance Contracting in The RAND/HEW Study of Education, * CONTRACTS

MILITARY PERSONNEL Prediction of Participation and Achievement in the United States Armed Forces Institute (USAFI) general Educational Development GED) Program, *

Research on computer models of MODELS (SIMULATIONS) AD- 603 569 teaching.

GIFTEDNESS AND ACHIEVEMENT IN SPECIAL PROGRAM,* AD- 644 558 STUDENTS

electrical/electronic test battery. ACHIEVEMENT TESTS Development of an *ELECTRICAL EQUIPMENT

THE COMMON-CORE PROGRAM AND THE LEARNING OF BASIC ELECTRICAL THEORY AT THE CLASS A ELECTRICIAN'S MATES SCHOOL, SAN DIEGO, CALIFORNIA* * ELECTRICITY

Relationship of reading ability to achievement in an experimental electronics technician school. *ELECTRONIC TECHNICIANS AD- 634 838 SELECTION

COURSE ACHIEVEMENT OF STUDENTS WITH UNSATISFACTORY ACADEMIC AVERAGES IN BASIC ELECTRONICS.* ARMY TRAINING AD- 633 165 *ELECTRONICS

ELECTRONICS TECHNICIAN TRAINING PROGRAM. III. COURSE EVALUATION INSTRUMENTS AND PROCEDURES.* TECHNICIANS AD- 658 316

APPLICATION OF ELECTRO-PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR THE ALERTNESS INDICATOR.* PERFORMANCE (HUMAN) * ELECTROPHYSIOLOGY AD- 639 045

Enlisted Advancement Exams: Item Comparative Racial Analysis of Differentiation.* AD-A035 672 *ENLISTED PERSONNEL

A Job-Oriented Reading Program for the Air Force: Development and Field Evaluation.* AD-A047 203

Comparative Racial Analysis of Enlisted Advancement Exams: Item Differentiation.* *ETHNIC GROUPS

ABNORMAL PSYCHOLOGY Fear of failure and the achievement situation.

Personality correlates of the individual; a clinical picture. failure vs. need achievement ACHIEVEMENT TESTS AD- 431 936

Measurement of fear of failure aspiration defense measure in relation to a level of MEASUREMENT AD- 430 407

general Fear of failure and achievement behavior. AD- 627 596 PSYCHOLOGICAL TESTS

Immediate Knowledge of Results and Psychological Effects of Adaptive Ability Testing. * AD-A027 170 *FEEDBACK

Affective Gutcomes of a Collegiate A Study of the Cognitive and Science Learning Game. * TEACHING METHODS AD- 721 071

*GAME THEORY

Predictors of Academic Success Communications Management Curriculum of the U.S. Naval of Graduate Students in the Postgraduate School, * AD- 783 810 *GRADUATES

technicians maintaining the AN/SKQ-Proficiency test for missile 1 telemetering ground station *GROUND SUPPORT EQUIPMENT NAVAL PERSONNEL equipment. AD- 431 945

COALITIONS IN TRIADS FORMATION OF COALITIONS IN *GROUP DYNAMICS UNDER FOUR CONDITIONS

UNCLASSIFIED

ZOMO2

AD- 292 105

Apprentice Aircraft and Missile Electrical Repairmen. Graduates of Performance Evaluation of Electrical Repairmen. Grac ATC Course N r. ABR42330.* GUIDED MISSILE PERSONNEL AD- 263 690

PROFICIENCY FOR GUIDED MISSILE PERSONNEL. I. MULTIPLE-CHOICE AN ANALYSIS OF TESTS OF ACHIEVEMENT TESTS

PROFICIENCY FOR GUIDED MISSILE PERSONNEL - 111. PATTERNS OF TROUBLE-SHOOTING BEHAVIOR* AN ANALYSIS OF TESTS OF AD- 079 361 AD- 079 362

technicians maintaining the AN/SKQ-Proficiency test for missile 1 telemetering ground station equipment.

GUIDED MISSILES

AD- 431 945

Close Support Rockets and TEST METHODS AD- 723 025

.HELICOPTERS

PROCEDURES. THE PILOT PERFORMANCE DESCRIPTION RECORDS AS AN INDEX OF PERFORMANCE DEFICIENCIES. 20 STANDARDIZATION OF HELICOPTER OT PROFICIENCY EVALUATION ROUGH REDUCTION OF SUBJECTIVE SCORING THROUGH

REFERENCES. AD- 276 115

TRAINING ACHIEVEMENT IN BASIC COMBAT SQUADS WITH CONTROLLED ARMY TRAINING APTITUDE. * AD- 073 777 *INFANTRY

*INFORMATION PROCESSING

Cognitive Abilities and Cognitive Processing Parameters: an Correlation of Selected

Exploratory Study.* AD-A050 774

Biosystems General Information *INSTRUCTORS

Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis,* Test: Form B,* AD-A018 978

Effectiveness using Student Ratings: The Search for Doctor Discriminant Analysis and Classification of Teaching AD-A018 979 FOX. *

4D-A032 091

Rank on Learning and Perception of Basic Airmen Taught through the Effect of Instructor Military Medium of Television.* AD- 763 705 IMPACT

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM* *INTELLIGENCE TESTS 40- 257 428

GIFTEDNESS AND ACHIEVEMENT IN SPECIAL PROGRAM,* AD- 644 558 CHILDREN

•

*JOB ANALYSIS
THE ROLE OF KNOWLEDGE OF RESULTS A SURVEY* IN LEARNING: AD- 262 937

DEVELOPMENT OF HUMAN PROFICIENCY AND PERFORMANCE MEASURES FOR WEAPON SYSTEMS TESTING* AD- 272 975

INTERFERENCE *LANGUAGE

Coloring Naming Interference in

Monolinguals and Bilinguals with matching Interfering and naming Languages.* AD- 717 230

JOB ANALYSIS *LEADERSHIP

STATUS REPORT ON RESEARCH FOR THE U.S. MILITARY ACADEMY (CADET LEADERS TASK),* AD- 432 090

CONTENT ANALYSIS OF ACHIEVEMENT MOTIVATION PROTOCOLS: A WORKING AD- 145 439 MANUAL* *LEARNING

THE ROLE OF KNOWLEDGE OF RESULTS IN LEARNING: A SURVEY* PROCEDURES FOR AUTO-INSTRUCTIONAL SOME IMPLICATIONS OF TESTING PROGRAMMING* AD- 262 937 AD- 283 359

Effect of Anxiety, Response Mode, and Subject Matter Familiarity on Achievement in Computer-Assisted Learning.* ACHIEVEMENT TESTS AD- 738 034

Rank on Learning and Perception of Effect of Instructor Military Basic Airmen Taught through the Medium of Television. * AIR FORCE PERSONNEL AD- 763 705

Differences in Schematic Concept Some Aspects of Individual ANALYSIS OF VARIANCE Formation. * AD- 744 781

ŏ APPROVAL-DISAPPROVAL AND NEED EFFECTS OF RACE OF TESTER NEGRO CHILDREN'S LEARNING. + ATTITUDES (PSYCHOLOGY)

AD-A058 500 DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA F/6 5/2 PSYCHOLOGICAL TESTS. (U) **SEP 78** UNCLASSIFIED DDC/BIB-78/06 NL 2016 MIMM AD A058500 LI DIN LE HELL 為黑点線

information on problem solving in COMPUTER PROGRAMMING Reprint: Effects of written verbalization and timing of programed learning. AD- 644 223

GRAMMARS

Reprint: Sentence length and sentence retention in the free-learning situation. AD- 658 932

heterogeneity to programming the Importance of problem PSYCHOLOGICAL TESTS task hierarchy.

AD- 601 210
SOME NON-INTELLECTUAL PREDICTORS
OF CLASSROOM SUCCESS.*
AD- 805 310 Test of a method for converting proficiency scores to learning time

Reprint: Studies of learning to learn: III. Conditions of improvement in successive transfer TRANSFER OF TRAINING AD- 601 943

A Job-Oriented Reading Program for the Air Force: Development and Field Evaluation.* AD- 645 386 .LITERACY

PERFORMANCE (HUMAN) A READING COMPREHENSION TEST.* AD- 800 078 *MACHINE TRANSLATION AD-A047 203

DEVELOPMENT OF A JOB SAMPLE TRAINING AND PROFICIENCY OF TROUBLE-SHOOTING EXAMINATION+ MAINTENANCE PERSONNEL

AVIATION STRUCTURAL MECHANICS. II. PROFICIENCY OF FIRST ENLISTMENT AVIATION MECHANICS*

ests for Electronic Maintenance. + Performance Test Administrator's Manual and Text Subject's Instructions for Criterion Referenced Job Task Performance Evaluating Maintenance AD-A005 785

Biosystems General Information Test: Form B. * AD-A018 978 *MAMMALS

ESTABLISHING PERSONNEL PERFORMANCE DEVELOPMENT OF A TECHNIQUE FOR STANDARDS (TEPPS). * STANDARDS

*MAN MACHINE SYSTEMS

Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis, * *MARINE BIOLOGY AD-A018 979 AD- 487 908

Ability Estimation and Item Calibration Using the One and Three Parameter Logistic Models: A comparative Study.* *MATHEMATICAL MODELS AD-A047 943

Expectancy Theory Predictions of Academic Performance and *MATHEMATICAL PREDICTION PERFORMANCE (HUMAN) Satisfaction. * AD- 731 081

DEVELOPMENT OF HUMAN PROFICIENCY AND PERFORMANCE MEASURES FOR WEAPON SYSTEMS TESTING* *MILITARY PERSONNEL AD- 272 975

ACHIEVEMENT TESTS

ZOM07 UNCLASSIFIED

Basic military knowledge in the

Army reserve.

Prediction of Participation and Achievement in the United States Armed Forces Institute (USAFI) general Educational Development (GED) Program,* AD- 752 623 AD- 480 323 **EDUCATION**

STATUS REPORT ON RESEARCH FOR THE U.S. MILITARY ACADEMY (CADET LEADERS TASK),* MEASUREMENT AD- 432 090

VALIDATION OF THE DIAL AND TABLE READING TEST AND PATTERN COMPREHENSION TEST.* AD- 659 289 SELECT ION

AVIATION PERSONNEL
PERSONALITY ORIENTATION AND SUCCESS IN NAVAL AVIATION *MILITARY PSYCHOLOGY TRAINING. * AD- 434 922

Basic military knowledge in the *MILITARY RESERVES ARMY PERSONNEL AD- 480 323 *MILITARY TRAINING
THE COMMON-CORE PROGRAM AND THE
LEARNING OF BASIC ELECTRICAL THEORY
AT THE CLASS A ELECTRICIAN'S MATES
SCHOOL, SAN DIEGO, CALIFORNIA* INTERRELATIONSHIPS BETWEEN 144 AD- 023

APTITUDE TESTS SCORES, PERFORMANCE IN SUBMARINE SCHOOL, AND SUBSEQUENT PERFORMANCE IN SUBMARINES AS DETERMINED BY RATINGS AND TESTS - RESEARCH ON THE DEVELOPMENT OF SHIPBOARD PERFORMANCE MEASURES. AD- 045 271

VALIDATION OF CURRICULUM CONTENT+ A PROCEDURE FOR THE EMPIRICAL

Measurement of fear of failure aspiration defense measure. in relation to a level of ACHIEVEMENT TESTS AD- 430 407 *MOTIVATION

AND THEIR RELATION TO AN OBJECTIVE MEASURE OF ACHIEVEMENT MOTIVATION, * RISK TAKING AND ACADEMIC SUCCESS AD- 432 078

An Adaptive Testing Strategy for Achievement Test Batteries.* *MULTIPLE DISCIPLINES AD-A046 062

A COMPARISON BETWEEN RATED AND TESTED ABILITY TO DO CERTAIN JOB *NAVAL PERSONNEL AD- 031 760

A PROCEDURE FOR THE EMPIRICAL VALIDATION OF CURRICULUM CONTENT* GAIN IN PROFICIENCY AS A CRITERION IN TEST VALIDATION.

Success Chances of Recruits Entering the Navy (Screen), +

Proficiency test for missile technicians maintaining the AN/SKQtelemetering ground station JOB ANALYSIS Pquipment. AD- 431 945

A PERFORMANCE-ORIENTED ELECTRONICS TECHNICIAN TRAINING PROGRAM. III. COURSE EVALUATION INSTRUMENTS AND PROCEDURES.* NAVAL TRAINING

PERFORMANCE(HUMAN)
DEVELOPMENT OF A TECHNIQUE FOR

ESTABLISHING PERSONNEL PERFORMANCE STANDARDS (TEPPS).* AD- 487 908

SELECTION

of high school performance in predicting college achievement for freshman NRDIC REGULAR STUDENTS. Evaluation of various measures AD- 619 173

Development and preliminary evaluation of the U. S. Navy automotive knowledge test. AD- 627 844

NAVAL KNOWLEDGE AS A PREDICTOR OF SERVICE TENURE AMONG NROTC OFFICERS. *

INVESTIGATION OF CAPER (COMPUTER AIDED PATTERN EVALUATION AND RECOGNITION) TECHNIQUES USING NCAT (NAVY COLLEGE APTITUDE TEST) AND BTB-7 (BASIC TEST BATTERY 7) DATA TO FORECAST SCHOOL PERFORMANCE.* AD- 640 067 AD- 659 525

Training feedback information research, development, test, and requirements and methods in the evaluation of Navy systems. AD- 608 247 TRAINING

Reading Retention as a Function of Method for Generating Interspersed Questions. * *NAVAL TRAINING AD-A038 536

Learning Monitoring and Evaluating Effects of Establishing a Conceptualization Context for COMBAT INFORMATION CENTERS

Relationship of reading ability to achievement in an experimental electronics technician school. ELECTRONIC TECHNICIANS

requirements and methods in the research, development, test, and evaluation of Navy systems. Training feedback information AD- 608 247 FEEDBACK

PERSONALITY ORIENTATION AND SUCCESS IN NAVAL AVIATION NAVAL AVIATION RAINING. *

AD- 434 922

A PERFORMANCE-ORIENTED
ELECTRONICS TECHNICIAN TRAINING
PROGRAM. III. COURSE EVALUATION
INSTRUMENTS AND PROCEDURES.* NAVAL PERSONNEL AD- 658 316

ACADEMIC GRADES IN PRIMARY FLIGHT TRAINING AS PREDICTORS FLIGHT SUCCESS.* PERFORMANCE (HUMAN)

A Comparison of the Performance of Fleet and Recruit Input to Class 'A' Schools.*

The Evaluation of Two Automated Systems for Teaching Typewriting.* TYPEWRITERS AD- 910 397

of high school performance in predicting college achievement for freshman NROTC REGULAR STUDENTS. Evaluation of various measures UNIVERSITIES AD- 619 173

Per formance. Combined Effects of Noise and Vibration on Mental STRESS (PSYCHOLOGY) *NOISE

STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR *OFFICER PERSONNEL

D-8 UNCLASSIFIED

A STUDY ON THE RELATIONSHIP OF OFFICER SPECIALTY; COMMAND ASSIGNMENT, AND MILITARY GRADE TO THE RELIABILITY OF EFFECTIVENESS RATINGS. OFFICERS* AD- 289 873

Development of a counseling form for use by supervising officers. ACHIEVEMENT TESTS AD- 603 109

Comparison of results obtained qualification test, form 3, (NAVPERS-16563) and (2) grades in officer mechanical aptitude test, form X-1 (NAVPERS16640) with (1) results on the officer on the experimental form of the submarine school. SELECT 10N

*PATTERN RECOGNITION
VISUAL PERCEPTION
A STUDY OF PERCEPTUAL
RECOGNITION IN TWO SENSE
MODALITIES.* ID- 489 592

VARIABLES RELATED TO ACCURACY IN INTERPERSONAL PRECEPTION* AD- 267 485 PERCEPTION

Rank on Learning and Perception of Basic Airmen Taught through the Effect of Instructor Military Medium of Television. . *PERCEPTION(PSYCHOLOGY)
AIR FORCE PERSONNEL AD- 763 705

Reprint: Confidence, correctness, and difficulty with non-psychophysical comparative judgments. +PERFORMANCE (HUMAN) DECISION MAKING

Performance Measurement. * *PERFORMANCE TESTS AD-A029 850 AD- 611 979

Pupil Diameter Versus Task *PERFORMANCE (HUMAN) AD- 787 375 Layout. *

A Theory of Achievement Behavior, * AD- 732 381 ANALYSIS

Measured Mental Ability, Service School Achievement and Performance, * **EFFECTIVENESS**

Effectiveness of Selection and Classification Testing.* AD- 720 359 AD- 768 168

APPLICATION OF ELECTRO-PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR THE ALERTNESS INDICATOR.* **ELECTROPHYSIOLOGY** AD- 639 045

Expectancy Theory Predictions of Academic Performance and MATHEMATICAL PREDICTION Satisfaction.* AD- 731 081

THE EFFECTS OF FEAR OF FAILURE ON RISK-TAKING AND PERFORMANCE.* MOTIVATION AD- 650 302

DEVELOPMENT OF A TECHNIQUE FOR ESTABLISHING PERSONNEL PERFORMANCE STANDARDS (TEPPS). . NAVAL PERSONNEL AD- 487 908

SOME NON-INTELLECTUAL PREDICTORS PREDICTIONS

OF CLASSROOM SUCCESS.* AD- 805 310

reinforcement in a verbal learning Comparative study of PSYCHOLOGY

AD- 432 565

Subjective Scaling of Student Performance, * AD- 738 044 STUDENTS

A Comparison on the Rasch Item Probability with Three Common Item Characteristics as Criteria for TEST CONSTRUCTION (PSYCHOLOGY) Item Selection.* AD- 738 829

on Assessing Human Research Abilities.* *PERSONALITY AD-A015 027

Fear of failure and the achievement situation. ACHIEVEMENT TESTS AD- 430 406 Personality correlates of the individual; a clinical picture. failure vs. need achievement AD- 431 936

characteristics as measured by the existence of an effect of service Investigation of the possible Structured-Objective Rorschach tenure upon personality STRESS (PSYCHOLOGY) Test (SORT). AD- 475 386

STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR *PERSONALITY TESTS OFFICERS*

Research on Assessing Human Abilities.* AD-A015 027

PERSONNEL MANAGEMENT NAVAL TRAINING

requirements and methods in the research, development, test, and evaluation of Navy systems. Training feedback information

.PERSONNEL SELECTION

Predictors of Academic Success Communications Management Curriculum of the U.S. Naval of Graduate Students in the Postgraduate School. * AD- 783 810

PICTURES

The Equivalence of Semantic and Figural Test Presentation of the REACT ION (PSYCHOLOGY) Same Items.*

*PROGRAMMED INSTRUCTION **EFFECTIVENESS**

verbalization and timing of information on problem solving in Effects of written programed learning. Reprint: AD- 644 223

LEARNING

Effect of Anxiety, Response Mode, and Subject Matter Familiarity on Achievement in Computer-Assisted Learning.*

SOME IMPLICATIONS OF TESTING PROCEDURES FOR AUTO-INSTRUCTIONAL PROGRAMMING* *PROGRAMMING (COMPUTERS)
A GRADE PREDICTION SYSTEM PROGRAM FOR THE IBM TYPE 709*
AD- 264 526

AD- 283 359

heterogeneity to programming the Importance of problem task hierarchy. AD- 601 210 LEARNING

*PROJECTIVE TECHNIQUES EFFECTIVENESS

characteristics as measured by the Investigation of the possible existence of an effect of service Structured-Objective Rorschach tenure upon personality Test (SORT). AD- 475 386

CHROMATIC VS ACHROMATIC PICTURES ACHIEVEMENT AND THE HOSTILE PRESS MEASURE OF FEAR OF FAILURE.* IN THE SCORING OF NEED FOR AD- 698 035 MOTIVATION

*PSYCHOLOGICAL TESTS
EQUIPERCENTILE CONVERSIONS AS A
FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM*

MILITARY GRADE OFFICER SPECIALTY; COMMAND EFFECTIVENESS RATINGS ASSIGNMENT, AND TO THE RELIABILITY OF AD- 257 428

SUMMARY REPORT ON VARIABLES AFFECTING ACHIEVEMENT SUCCESS/FAILURE. AD- 291 838 AD- 289 873

and Simulation Studies of Flexilevel Ability Testing. * Development of a Programmed Testing System.* Empirical AD-A001 534

Biosystem Personnel Test Battery: Predictive Validity of the Preliminary Analysis.* AD-A013 185 AD-A018 979

Comparison of results obtained CORRELATION TECHNIQUES

UNCLASSIFIED

qualification test, form 3, (NAVPERS-16563) and (2) grades in officer mechanical aptitude test, form X-1 (NAVPERS16640) with (1) on the experimental form of the results on the officer submarine school.

VALIDATION OF THE DIAL AND TABLE READING TEST AND PATTERN COMPREHENSION TEST.* **EFFECTIVENESS** AD- 659 289

LEARNING

SOME NON-INTELLECTUAL PREDICTORS OF CLASSROOM SUCCESS.+ AD- 805 310

TEN POINT WEIGHTING WITH THE IBM-805 TEST SCORING MACHINE. * SUBMARINE PERSONNEL AD- 646 305

TEST METHODS *PSYCHOLOGY

Personality correlates of fear of failure VS. need achievement individual; value scales. AD- 431 938

*PSYCHOMOTOR TESTS BIBLIOGRAPHIES

Volume I. A. Achievement Tests. B. Psychological Tests. Psychomotor Tests.*

Pupil Diameter Versus Task Layout.* .PUPIL(EYE)

AD- 760 900

AD- 787 375 *RATINGS

Ratings: The Search for Doctor Discriminant Analysis and Effectiveness using Student Classification of Teaching

AD-A032 091

*REACTION (PSYCHOLOGY)

criticalness response style at the achievement test of report writing Difficulty of items on an and other correlates of tem level. AD- 600 702

READING

PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR APPLICATION OF ELECTRO-THE ALERTNESS INDICATOR. * ACHIEVEMENT TESTS AD- 639 045

Assessing comprehension attained Research and by reading:

development.

READING COMPREHENSION TEST. *

Relationship of reading ability to achievement in an experimental electronics technician school. PERFORMANCE (HUMAN)

*REASON ING

THE ROLE OF KNOWLEDGE OF RESULTS VARIABLES RELATED TO ACCURACY IN INTERPERSONAL PRECEPTION* IN LEARNING: A SURVEY* AD- 267 485

GRAMMARS *RECALL

Reprint: Sentence length and sentence retention in the freeearning situation. AD- 658 932

PROGRAM FOR THE IBM TYPE 709* A GRADE PREDICTION SYSTEM AD- 264 526 PRECORDS

Success Chances of Recruits

*RECRUITS

Entering the Navy (Screen),* AD-A050 405

TRAINING *REVIEWS

Training Evaluation and Student Achievement Measurement: A Review of the Literature, * AD- 747 040

SCHEDULING TRAINING A Study of the Effects of Shift Operations on Student Achievement in Electronics Training. AD- 726 525

Cognitive Abilities and Cognitive Correlation of Selected Processing Parameters: an Exploratory Study.* AD-A050 774 *SEARCHING

*SKILLS

Calibration Using the One and Three Parameter Logistic Models: A Ability Estimation and Item comparative Study. * AD-A047 943

A STUDY OF PERCEPTUAL RECOGNITION IN TWO SENSE AUDITORY PERCEPTION *SPEECH RECOGNITION MODALITIES. * AD- 489 592

THE ROLE OF KNOWLEDGE OF RESULTS LEARNING: A SURVEY+ *STIMULATION(PHYSIOLOGY) IN LEARNING: AD- 262 937

Pupil Diameter Versus Task *STRESS(PSYCHOLOGY) AD- 787 375

Vibration on Mental Performance. * Combined Effects of Noise and PERFORMANCE (HUMAN)

AD- 731 146

PERSONALITY

characteristics as measured by the Structured-Objective Rorschach Investigation of the possible existence of an effect of service tenure upon personality rest (SORT).

AD- 475 386

*STUDENTS

Predictors of Academic Success Curriculum of the U.S. Naval of Graduate Students in the Communications Management Postgraduate School. * AD- 783 810

Expectancy Theory Predictions of Academic Performance and Satisfaction.* ACHIEVEMENT TESTS

Training Evaluation and Student Achievement Measurement: A Review of the Literature, * AD- 747 040 AD- 731 081

DISTRIBUTION

Project R-3 Allocation of Students Among Groups, * AD- 738 040

Subjective Scaling of Student Performance,* PERFORMANCE (HUMAN) AD- 738 044

A Study of the Effects of Shift Operations on Student Achievement in Electronics Training. * TRAINING

*SUBMARINE PERSONNEL
A COMPARISON BETWEEN RATED AND
TESTED ABILITY TO DO CERTAIN JOB

INTERRELATIONSHIPS BETWEEN

APTITUDE TESTS SCORES, PERFORMANCE IN SUBMARINE SCHOOL, AND SUBSEQUENT PERFORMANCE IN SUBMARINES AS DETERMINED BY RATINGS AND TESTS — RESEARCH ON THE DEVELOPMENT OF SHIPBOARD PERFORMANCE MEASURES+ ND- 045 271

SELECTION

Comparison of results obtained on the experimental form of the officer mechanical aptitude test, form X-1 (NAVPERS16640) with (1) qualification test, form 3, (NAVPERS-16563) and (2) grades in results on the officer submarine school. TEN POINT WEIGHTING WITH THE IBM-805 TEST SCORING MACHINE. * AD- 646 305

*SUPERVISORS

Development of a counseling form for use by supervising officers. JOB ANALYSIS AD- 603 109

SOME IMPLICATIONS OF TESTING PROCEDURES FOR AUTO-INSTRUCTIONAL .TEACHING MACHINES PROGRAMMING* AD- 283 359

Importance of problem heterogeneity to programming the PSYCHOLOGICAL TESTS task hierarchy. AD- 601 210

SPECIFYING, AND USING INSTRUCTIONAL OBJECTIVES, . *TEACHING METHODS EFFECTIVENESS DERIVING, AD- 646 976

Affective Outcomes of a Collegiate A Study of the Cognitive and Science Learning Game. +

INDIVIDUAL DIFFERENCES AND MODES OF INSTRUCTION.* SOME INTERACTIONS BETWEEN AD- 631 138 HUMANS

ELECTRONICS TECHNICIAN TRAINING PROGRAM. III. COURSE EVALUATION INSTRUMENTS AND PROCEDURES.* A PERFORMANCE-ORIENTED ELECTRONICS AD- 658 316 *TECHNICIANS

electrical/electronic test battery. Development of an ACHIEVEMENT TESTS *TEST CONSTRUCTION AD- 612 891

of Results and Adaptive Testing on Ability Test Performance.* Effects of Immediate Knowledge Research on Assessing Human *TEST CONSTRUCTION(PSYCHOLOGY) Abilities.* AD-A015 027

Reading Retention as a Function of Method for Generating Interspersed Questions.* AD-A038 536 AD-A027 147

Functions of Multiple-Choice and Free-Response Vocabulary Items.* A Comparison of Information AD-A039 255

Conventional and Adaptive Tests in the Measurement of Classroom An Information Comparison of Achievement.* AD-A047 495

Simulated and Empirical Studies of Flexilevel Testing in Air Force echnical Training Courses. * AD-A050 829

Function of Relative Test Lengths Reprint: Maximizing the Validity of a Test Battery as a for a Fixed Total Testing Time. ACHIEVEMENT TESTS

AD- 727 921

Electrical Repairmen. Graduates of Apprentice Aircraft and Missile Performance Evaluation of ATC COURSE N r. ABR42330.* *TRAINING

A PROCEDURE FOR THE EMPIRICAL VALIDATION OF CURRICULUM CONTENT. AD- 276 923

Biosystems General Information Test: Form B,* AD-A018 978

Training Evaluation and Student Achievement Measurement: A Review of the Literature, * AD- 747 040 REVIEWS

A Study of the Effects of Shift Operations on Student Achievement in Electronics Training. . SCHEDUL ING AD- 726 525

Test of a method for converting proficiency scores to learning time *TRAINING DEVICES AD- 601 943 scores.

Test and Evaluation of Training Extension Course (TEC). *

The Evaluation of Two Automated Systems for Teaching Typewriting.* AD- 910 397 NAVAL TRAINING *TYPEWRITERS

Relationship between n Ach and Uric A Note on the Reprint: AD-A030 516 •URIC ACID

Procedures for Validating Skill Qualification Tests.* *VALIDATION

AD-A036 997

VIBRATION STRESS(PSYCHOLOGY) Combined Effects of Noise and Vibration on Mental Performance. *VISUAL PERCEPTION
ACHIEVEMENT TESTS
THE EFFECT OF MAGNIFICATION ON
VISUAL TASKS. II. PERCEPTUAL
INTEGRATION,*
AD- 673 316

PATTERN RECOGNITION
A STUDY OF PERCEPTUAL
RECOGNITION IN TWO SENSE
MODALITIES.*
AD- 489 592

*VOCABULARY
A Comparison of Information
Functions of Multiple-Choice and
Free-Response Vocabulary Items.*
AD-A039 255

*WORD ASSOCIATION
PERFORMANCE (HUMAN)
The Equivalence of Semantic and
Figural Test Presentation of the
Same Items.*
AD- 738 830

D-13 UNCLASSIFIED Z

ZOM07

ARMY RESERVE. AD- 480 323 Calibration Using the One and Three Parameter Logistic Models: A

Ability Estimation and Item

comparative Study.

AD-A047 943

Biosystems General Information Form B. AD-A018 978 Test:

Calibration of an Item Pool for the Adaptive Measurement of Achievement.

TRAINING AS PREDICTORS OF FLIGHT

ACADEMIC GRADES IN PRIMARY FLIGHT

AD-A044 828

CHROMATIC VS ACHROMATIC PICTURES IN THE SCORING OF NEED FOR ACHIEVEMENT AND THE HOSTILE PRESS MEASURE OF FEAR OF FAILURE. AD- 698 035

Visual Aircraft Recognition Skills. AD-A035 863

An Adaptive Testing Strategy for

Achievement Test Batteries. AD-A046 062

The Acquisition and Retention of

Close Support Rockets and Missiles. AD- 723 025

Monolinguals and Bilinguals with matching Interfering and naming Coloring Naming Interference in Languages. AD- 717 230

Vibration on Mental Performance. Combined Effects of Noise and AD- 731 146

LEARNING OF BASIC ELECTRICAL THEORY AT THE CLASS A ELECTRICIAN'S MATES SCHOOL, SAN DIEGO, CALIFORNIA THE COMMON-CORE PROGRAM AND THE ND- 023 144

AN ANALYSIS OF THE EFFECTS OF REPETITIVE TESTING ON FIGURE MATRIX

AD- 079 362

BEHAVIOR

TEST SCORES

AD- 271 386

FOR GUIDED MISSILE PERSONNEL - III. PATTERNS OF TROUBLE-SHOOTING

AN ANALYSIS OF TESTS OF PROFICIENCY

AN ANALYSIS OF TESTS OF PROFICIENCY FOR GUIDED MISSILE PERSONNEL. I. MULTIPLE-CHOICE TESTS AD- 079 361

Comparative Racial Analysis of Enlisted Advancement Exams: Differentiation. AD-A035 672

1

PHYSIOLOGICAL TECHNIQUES TO HUMAN PERFORMANCE: THE READING ASSESSOR

APPLICATION OF ELECTRO-

THE ALERTNESS INDICATOR

AD- 639 045

Attrition in Ordnance School

AD- 751 781

COMPARATIVE STUDY OF REINFORCEMENT IN A VERBAL LEARNING TASK. ND- 432 565

DO CERTAIN JOB COMPARISON BETWEEN RATED AND TESTED ABILITY TO DO CERTAIN AD- 031 760

THE AUTOMASTS: AN AUTOMATICALLY-RECORDING TEST OF ELECTRONICS TROUBLE SHOOTING

BASIC MILITARY KNOWLEDGE IN THE

COMPARISON OF FOUR MODELS FOR MAKING PREDICTIONS ACROSS INSTITUTIONS,

AD- 673 967

Functions of Multiple-Choice and Free-Response Vocabulary Items. A Comparison of Information AD-A039 255 COMPARISON OF RESULTS OBTAINED ON THE EXPERIMENTAL FORM OF THE OFFICER MECHANICAL APTITUDE TEST, FORM X-1 (NAVPERS-16640) WITH (1) RESULTS ON THE OFFICER QUALIFICATION TEST, FORM 3, (NAVPERS-16563) AND (2) GRADES IN SUBMARINE SCHOOL, AD- 622 215

Fleet and Recruit Input to Class A Comparison of the Performance of 'A' Schools. AD- 728 027

Probability with Three Common Item Characteristics as Criteria for A Comparison on the Rasch Item Item Selection. AD- 738 829

CRITERION DEVELOPMENT: III. THE BASIC PROGRAMMING KNOWLEDGE TEST. COMPUTER PERSONNEL SELECTION AND AD- 536

DIFFICULTY WITH NON-PSYCHOPHYSICAL COMPARATIVE JUDGMENTS, CONFIDENCE, CORRECTNESS, AND

CONTENT ANALYSIS OF ACHIEVEMENT MOTIVATION PROTOCOLS: A WORKING AD- 145 439 MANUA

Abilities and Cognitive Processing Parameters: an Exploratory Study. Correlation of Selected Cognitive AD-A050 774

> ZOMOZ UNCLASSIFIED

DERIVING, SPECIFYING, AND USING INSTRUCTIONAL OBJECTIVES, AD- 646 976

DEVELOPMENT AND PRELIMINARY
EVALUATION OF THE U. S. NAVY
AUTOMOTIVE KNOWLEDGE TEST.
AD- 627 844

DEVELOPMENT OF A COUNSELING FORM FOR USE BY SUPERVISING OFFICERS, AD- 603 109

DEVELOPMENT OF A JOB SAMPLE TROUBLE-SHOOTING EXAMINATION AD- 026 472

Development of a Programmed Testing System. AD-A001 534 DEVELOPMENT OF A TECHNIQUE FOR ESTABLISHING PERSONNEL PERFORMANCE STANDARDS (TEPPS).

DEVELOPMENT OF ACB AUTOMOTIVE
INFORMATION AND CLERICAL SPEED
TESTS, FORMS 3 AND 4
AD- 276 622

DEVELOPMENT OF AN ELECTRICAL/ELECTRONIC TEST BATTERY AD- 612 891

DEVELOPMENT OF HUMAN PROFICIENCY
AND PERFORMANCE MEASURES FOR WEAPON
SYSTEMS TESTING
AD- 272 076

DEVELOPMENT OF PRACTICAL
PERFORMANCE MEASURES. VOLUMES I AND
II
AD- 018 612

DEVELOPMENT OF PROFICIENCY TESTS

FOR BASIC COMBAT AND LIGHT INFANTRY TRAINING AD- 085 829

DEVELOPMENT OF THE OFFICER
QUALIFICATION TEST. FORMS 7 AND 8
AD- 266 934

DIFFICULTY AND OTHER CORRELATES OF CRITICALNESS RESPONSE STYLE AT THE ITEM LEVEL, AD- 600 702 Discriminant Analysis and Classification of Teaching Effectiveness using Student Ratings: The Search for Doctor Fox, AD-A032 091

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Television. AD- 763 705 II. PERCEPTUAL

THE EFFECT OF MAGNIFICATION ON

VISUAL TASKS.

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Effects of Establishing a Conceptualization Context for Learning Monitoring and Evaluating Tasks.

AD- 726 690
THE EFFECTS OF FEAR OF FAILURE ON RISK-TAKING AND PERFORMANCE.
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Effects of Immediate Knowledge of

Results and Adaptive Testing or Ability Test Performance. AD-A027 147 EFFECTS OF RACE OF TESTER, APPROVALDISAPPROVAL AND NEED ON VEGRO CHILDREN'S LEARNING.

AD- 659 052

EFFECTS OF WRITTEN VERBALIZATION AND TIMING OF INFORMATION ON PROBLEM SOLVING IN PROGRAMED LEARNING, AD- 644 223 Empirical and Simulation Studies of Flexilevel Ability Testing.
AD-A013 185

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM AD- 257 428

The Equivalence of Semantic and Figural Test Presentation of the Same Items.

Evaluating Maintenance Performance
Test Administrator's Manual and
Text Subject's Instructions for
Criterion Referenced Job Task
Performance Tests for Electronic
Maintenance.

The Evaluation of Two Automated Systems for Teaching Typewriting. AD- 910 397 AN EVALUATION OF VARIOUS MEASURES OF HIGH SCHOOL PERFORMANCE IN PREDICTING COLLEGE ACHIEVEMENT FOR FRESHMAN NROTC REGULAR STUDENTS. AD- 619 173

Expectancy Theory Predictions of Academic Performance and Satisfaction.

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FEAR OF FAILURE AND GENERAL ACHIEVEMENT BEHAVIOR. AD- 627 596 FEAR OF FAILURE AND THE ACHIEVEMENT SITUATION. AD- 430 406

FURTHER STUDIES OF THE VALIDITY OF COMPONENTS OF THE U.S. NAVAL POSTGRADUATE SCHOOL TEST AD- 072 205

GAIN IN PROFICIENCY AS A CRITERION IN TEST VALIDATION AD- 144 639

GIFTEDNESS AND ACHIEVEMENT IN SPECIAL PROGRAM, AD- 644 558

Educational Evaluation Going Beyond the Mean in AD- 786 579

GROUP PERFORMANCE DURING FOUR-HOUR PERIODS OF CONFINEMENT A GRADE PREDICTION SYSTEM PROGRAM FOR THE 18M TYPE 709 AD- 264 526

HIERARCHICAL FACTORS IN COURSE GRADES IN AN AVIATION HIGH SCHOOL AD- 283 842 AD- 294 814

HETEROGENEITY TO PROGRAMMED THE IMPORTANCE OF PROBLEM LEARNING. AD- 601 210 IMPORTANCE OF SITUATIONAL FACTORS IN THE MEASUREMENT OF OFFICER EFFECTIVENESS AD- 289 873 IMPROVING FLIGHT PROFICIENCY EVALUATION IN ARMY HELICOPTER PILOT TRAINING

CONSTRUCTION UPON THE CHARACTERISTICS OF RATINGS RENDERED THE INFLUENCE OF RATING SCALE AD- 209 971

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TESTS SCORES, PERFORMANCE IN
SUBMARINE SCHOOL, AND SUBSEQUENT
PERFORMANCE IN SUBMARINES AS
DETERMINED BY RATINGS AND TESTS RESEARCH ON THE DEVELOPMENT OF
SHIPBOARD PERFORMANCE MEASURES AD- 045 271 INVESTIGATION OF CAPER (COMPUTER
AIDED PATTERN EVALUATION AND
RECOGNITION) TECHNIQUES USING NCAT
(NAVY COLLEGE APTITUDE TEST) AND
BTB-7 (BASIC TEST BATTERY 7) DATA
TO FORECAST SCHOOL PERFORMANCE.
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Directional Bias in Standarized Achievement Tests: The Case of Issues of Reliability and AD-A037 926 Job-Oriented Reading Program the Air Force: Development Evaluation. AD-A047 203 ield

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AD- 208 485

the Effects of Guessing on Test Mathematical Considerations about Variance. AD- 749 883 Maximizing the Validity of a Test Battery as a Function of Relative Test Lengths for a Fixed Total Testing Time. AD- 727 921

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MEASUREMENT OF FEAR OF FAILURE IN RELATION TO A LEVEL OF ASPIRATION DEFENSE MEASURE, AD- 430 407

MEASURING ELEMENTS OF NEED ACHIEVEMENT AD- 291 838

Distinguishing Aptitude from A Model for Psychometrically AD- 751 030 Ability.

MODEL THE MASTER TEACHER OR MASTER THE TEACHING MODEL. AD- 603 569

NAVAL KNOWLEDGE AS A PREDICTOR OF SERVICE TENURE AMONG NROTC AD- 640 067

A Note on the Relationship between n Ach and Uric Acid. AD-A030 516

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PERSONALITY CORRELATES OF THE FEAR OF FAILURE VS. NEED ACHIEVEMENT INDIVIDUAL. 2. A CLINICAL PICTURE, AD- 431 936

PERSONALITY ORIENTATION AND SUCCESS IN NAVAL AVIATION TRAINING, AD- 434 922

DEVELOPMENT AND APPLICATION OF TBCL CRITERIA TO THE SESR PROGAM FOR THE AIR CONRTOLMAN AND THE PARACHUTE RIGGER RATINGS POST TRAINING PERFORMANCE CRITERION

POTENTIAL USES OF COMPUTERS TEACHING MACHINES. AD- 483 974 POWER, STRATEGY, AND THE FORMATION OF COALITIONS IN TRIADS UNDER FOUR INCENTIVE CONDITIONS

Achievement in the United States general Educational Development Armed Forces Institute (USAFI) Prediction of Participation and GED) Program, Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis,

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Predictors of Academic Success of Curriculum of the U.S. Naval Graduate Students in the Communications Management Postgraduate School. AD- 783 810 A PROCEDURE FOR THE EMPIRICAL VALIDATION OF CURRICULUM CONTENT AD- 276 923

Procedures for Validating Skill Qualification Tests, AD-A036 997 PROFICIENCY TEST FOR MISSILE
TECHNICIANS MAINTAINING THE AN/SKQ1 TELEMETERING GROUND STATION
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Pupil Diameter Versus Task Layout AD- 787 375 The RAND/HEW Study of Performance Contracting in Education, AD- 731 248

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Method for Generating Interspersed Reading Retention as a Function of Quest ions.

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TO ACHIEVEMENT IN AN EXPERIMENTAL THE RELATIONSHIP OF READING ABILITY ELECTRONICS TECHNICIAN SCHOOL. REPORT ON THE VALIDATION OF TESTS
AGAINST FIRST AND SECOND TERM
GRADES AND QUALITY-POINT RATIOS AT
THE U.S. NAVAL POST-GRADUATE SCHOOL
(ULLY 1948 TESTING)
AD- 072 201

RESEARCH AND DEVELOPMENT OF READING AD- 639 046 ASSESSOR.

Research on Assessing Human Abilities. AD-A015 027

AND THEIR RELATION TO AN OBJECTIVE MEASURE OF ACHIEVEMENT MOTIVATION, RISK TAKING AND ACADEMIC SUCCESS AD- 432 078

THE ROLE OF KNOWLEDGE OF RESULTS IN LEARNING: A SURVEY AD- 262 937

AS A FUNCTION OF SITUATIONAL STRESS, NEED FOR ACHIEVEMENT, AND INTERPERSONAL AWARENESS SELECTION OF FEED-BACK INFORMATION AD- 277 568

SENTENCE LENGTH AND SENTENCE RETENTION IN THE FREE-LEARNING SITUATION, AD- 658 932 Simulated and Empirical Studies of Flexilevel Testing in Air Force Technical Training Courses. AD-A050 829

Differences in Schematic Concept Some Aspects of Individual Formation.

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OF TESTING	PROCEDURES FOR AUTO-INSTRUCTIONAL		
SOME IMPLICATIONS OF TESTING	PROCEDURES FOR	PROGRAMMING	AD- 283 359

SOME INTERACTIONS BETWEEN INDIVIDUAL DIFFERENCES AND MODES OF INSTRUCTION. AD- 631 138

SOME NON-INTELLECTUAL PREDICTORS OF CLASSROOM SUCCESS. AD- 805 310

CRITERION MEASURES FOR USMC JUNIOR STATISTICAL DESCRIPTION OF AD- 068 055 **OFFICERS**

STATUS REPORT ON RESEARCH FOR THE U.S. MILITARY ACADEMY (CADET LEADERS TASK), AD- 432 090

Computerized Ability Test. AD- 768 376 The Stratfield Adaptive

STUDIES OF LEARNING TO LEARN: I CONDITIONS OF IMPROVEMENT IN SUCCESSIVE TRANSFER TASKS, AD- 645 386

A STUDY OF PERCEPTUAL RECOGNITION IN TWO SENSE MODALITIES. AD- 489 592

Affective Outcomes of a Collegiate Science Learning Game. AD- 721 071 A Study of the Cognitive and

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Entering the Navy (Screen), AD-A050 405 Success Chances of Recruits

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Achievement Measurement: A Review Training Evaluation and Student of the Literature, AD- 747 040

REQUIREMENTS AND METHODS IN THE RESEARCH, DEVELOPMENT, TEST, AND TRAINING FEEDBACK INFORMATION EVALUATION OF NAVY SYSTEMS AD- 608 247

VALIDATION OF THE DIAL AND TABLE READING TEST AND PATTERN COMPREHENSION TEST. AD- 659 289

VALIDITIES OF TESTS GIVEN IN 1950 FOR PREDICTING AVERAGE GRADES FOR THE FIRST TWO TERMS AT THE U.S. NAVAL POSTGRADUATE SCHOOL AD- 072 203

VALIDITIES OF TESTS GIVEN IN JULY 1948 FOR PREDICTING FIRST YLAN AVERAGE GRADES AT THE U.S. NAVAL POSTGRADUATE SCHOOL AD- 072 204

VARIABLES RELATED TO ACCURACY INTERPERSONAL PRECEPTION AD- 267 485

VOCATIONAL SELF CONCEPTS AND HIGH SCHOOL ACHIEVEMENT AD- 282 421

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-A050 828 5/7 5/10 CENTER FOR APPLIED LINGUISTICS ARLINGTON VA AD-A050 828

-4051 962 5/9 12/1 17/2.1 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

17/2.1

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Airmen for the Radio Communications Analysis Specialist Course: Development and

Validation.

Analysis Aptitude Test for Selection of

DESCRIPTIVE NOTE: Final rept. Apr-Nov 77, DEC 77 11P Mathews, John J. ;

REPT. NO. AFHRL-TR-77-74

DEC 77

Sociolinguistic and Measurement Considerations for Construction of Armed Services Selection

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PROJ: 7719

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Personnel selection,

UNCLASSIFIED REPORT

Air Force training, Air Force personnel, Enlisted personnel, Performance(Human), Mathematical prediction, Army personnel, Electronic technicians, Radio equipment IDENIIFIERS: Radio communications analysis specialty, PE62703F, LPN-AFS51000

SUPPLEMENTARY NOTE: Prepared in cooperation with the Educational Testing Service, Princeton, NJ, Contract F41609-75-C-0034.

> 3 3

> > Analysis Aptitude (AA) test is added to current selection instruments. Highly significant validities were obtained with AA for samples of 173

R of .7 in predicting final grades from AA and

Air Force and 144 Army students. A multiple

Qualification Test (AFQT) was obtained for a

the three subtests of the Armed Forces

subsample of 108 Army students. Minimum

increase in prediction of Radio Communication Analysis Specialist course performance when an

the objective of this study was to assess the

DESCRIPTORS: *Linguistics, *Aptitude tests, Bias,

sociolinguistic perspective are set forth as a basis arithmetic reasoning and automotive information; and experimentation are suggested, and further questions suggests ways in which this anlaysis may be followed Linguistic interference is investigated for three are explored. The conclusion summarizes specific different aspects of language usage in tests: directions; word problems, as seen in tests for for investigating the use of language in tests. potential sources of linguistics bias in Armed Forces aptitude tests. General aspects of a word knowledge. For each of the main areas of investigation procedures for verification and considerations that should be given to sociolinguistic aspects of aptitude tests and The objective of this study is to identify

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Batteries.

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DESCRIPTIVE NOTE: Final rept. Oct 75-Jun 77,
DEC 77 42P Boldt,R. F. :Levin,M. K.
;Griffin,M. ;Troike,R. C. ;Wolfnam,W. ;
CONTRACT: DAHC15-73-C-0364

TR-77-65, MR-74-12 MONITOR: AFHRL, GASD/MRA

Military personnel, Sociology, Language, Word association, Reasoning, Motor reactions (DENTIFIERS: PE62703F, WUAFHRL77191014

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up by test designers and test interpreters. (Author)

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qualification scores of 71 percentile on AFQT and a

raw score of 15 on AA were recommended for

selection of students. (Author)

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

-A049 049 5/9 5/10 FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION MEDICINE 4D-A049 049

3 Development of New Selection Tests for Air fraffic Controllers,

Dailey, John T. ; Pickrel FAA-AM-77-25 12P

UNCLASSIFIED REPORT

*Air traffic controllers, *Personnel construction(Psychology), Air traffic, Aviation safety, Threat evaluation, Perception(Psychology), Pattern recognition selection, *Aptitude tests, Test

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 $\hat{\Xi}$ available data indicate that this new and customized on the job at operational facilities, and constantly produced higher correlations with ATC success than instrument promises to be a significant improvement success in the ATC speciality. Alternate forms of the test have been developed in a format that meets any other test used in the validation studies. The the ability to identify potential conflicts in air applicant population, and results indicate that it screening. In addition it includes measurement of The test has been administered experimentally to groups whose abilities approximate those of the experimentally to have a significant relation to has been administered experimentally to incoming Multiplex Controller Aptitude Test for initial screening of FAA Air Traffic Controller applicants. Its content includes the traditional has satisfactory reliability characteristics. It Civil Service test administration requirements. over the existing battery for screening FAA Air Traffic Controller applicants. (Author) This report describes the development of a new types of aptitude test items used for today's students at the FAA ATC Academy and personnel traffic, a skill that has been demonstrated

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SOWO2 SEARCH CONTRUL NO. DDC REPORT BIBLIOGRAPHY

--A048 120 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A048 120

Laboratory Specialist Course: Development Screening Test Battery for Dental and Validation.

3

DESCRIPTIVE NOTE: Technical memo. (Final) Jul 74-Mathews, John J. ; Jensen, 77 14P 00 Harald

AFHRL-TR-77-53 7719 TASK: PROJ:

UNCLASSIFIED REPORT

ESCRIPTORS: *Dental personnel, *Aptitude tests,
*Air force personnel, *Enlisted personnel, Students, Color vision, Careers, Visual perception, Personnel selection IDENTIFIERS: PE62703F, WUAFHRL77191218 Performance (Human), Acceptance tests, DESCRIPTORS:

33

prospective DLS students did not demonstrate significant validity with laboratory ratings or final grades, if available, were obtained for the subjects. grades. This lack of relationship seems partly due replacement for the difficult to administer and costly Chalk Carving Test presently used in screening Dental Laboratory Specialist (DLS) candidates. An experimental battery of perceptual tests was given to 172 prospective DLS students. Dexterity tests were also given to a subsample. Experimental laboratory ratings and final course to somewhat subjective scoring reflected by a low multiple validity correlations were computed. The experimentally administered perceptual tests and The object of this study was to develop a valid Chalk Carving Test presently used in screening Tests were factor analyzed, and individual and internater reliability. Several of the

few perceptual tests also were valid for predicting correlate significantly with laboratory ratings. DLS final grades.

finger dexterity test (Peg Turning) did

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60WOZ SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

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-- 4048 119 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Development of a Screening Methodology for Entry into Medical Technical Training Courses.

 $\widehat{\Xi}$

Leisey, Sandra A. : Guinn, DESCRIPTIVE NOTE: Final rept. Oct 75-Apr 77. AUG 77 28P

AFHRL-TR-77-49 Nancy : REPT. NO.

AMDS PROJ:

UNCLASSIFIED REPORT

3 DESCRIPTORS: *Aptitude tests, *Medical technicians, *Air Force personnel, *Enlisted personnel, Personnel selection, Attrition, Vocabulary, Reading, Acceptance tests, Students, Trainees, Military training, Job analysis
IDENTIFIERS: Air Force speciality codes, Aeromedical specialist, Environmental health specialist, Physiological training specialist, AFSC 91130, AFSC 90130, AFSC 90130, PE62703F, WUAFHRLAMDS1000

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and/or personnel requiring remedial training in these commercial tests and the aptitudinal and biographical developing a refined selection methodology for entry into three medical technical training courses. composite can help in identifying potential failures whether the commercial tests and/or aptitudinal and biographical data contributed to the prediction of regression analyses were accomplished to determine This research reports the evaluation of a current Aptitudinal and biographical data were retrieved training performance. It was found that the most effective predictor composite contained both the courses during the 1973-1975 time period were administered three commercial tests by the USAF from historical record files. Multiple linear data. Results indicated that such a predictor screening methodology and the feasibility of A sample of 1,003 students who entered these Aeromedical Specialist (90130), Environment Health Specialist (90730), and Physiological Training Specialist (91130). School of Aviation Medicine (SAM). courses. (Author)

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MISSOURI UNIV-COLUMBIA TAILORED TESTING RESEARCH LAB Ability Estimation and Item Calibration AD-A047 943

Using the One and Three Parameter Logistic Models: A Comparative Study.

3

Reckase, Mark D. : Research rept., OCT 77 69P REPT. NO. RR-77-1 CONTRACT: N00014-77-C-0097 DESCRIPTIVE NOTE:

R80420401 PROJ: RR04204

UNCLASSIFIED REPORT

*Mathematical models, *Achievement tests, Calibration, Multivariate analysis, Eigenvalues, Parameters, Estimates IDENTIFIERS: Latent trait calibration, PE61153N, *Skills, *Aptitude tests, DESCRIPTORS:

3 3

WUNR150395

available to calibrate dichotomous items for tailored effects of item quality, and the cost of calibration Sixteen data-sets were used for these evaluations; were found to estimate different components when the tests measured several independent factors. The testing applications. From the procedures, the most three-parameter model estimated parameters from one of the factors, ignoring the others, while the one-parameter model estimated the sum of the factors. using the one- and three-parameter logistic models eight live testing data-sets, and eight simulation promising techniques for the calibration of items The literature on latent trait calibration procedures was reviewed to determine the methods model; and the estimation procedure for use with their suitability for use with multivariate item pools, the sample size required for calibration, Panchapakesan was selected for the one-parameter and Lord, was selected for the three-parameter model. The two procedures were then compared on structures. The one- and three-parameter models omitted responses, developed by Wood, Wingersky data-sets generated to match specified factor ikelihood procedure developed by Wright and were selected for comparison. The maximum

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

AMERICAN INSTITUTES FOR RESEARCH WASHINGTON D C AD-A047 299

nvestigation of an Information Processing An Information Processing Approach to Performance Assessment. I. Experimental Performance Battery. DESCRIPTIVE NOTE: Technical rept. 1 Apr-15 Nov 77, NOV 77 95P Rose, Andrew M. ; Fernandes, Kathleen

CONTRACT: N00014-76-C-0871

RR0420401 RR04204 PROJ:

UNCLASSIFIED REPORT

requirements, Naval personnel, Parametric analysis, Decision making, Linguistics, Semantics, Recognition, Memory(Psychology)
IDENTIFIERS: PE61153N, WUNR150391 ESCRIPTORS: *Information processing, *Personnel selection, *Aptitude tests, *Performance(Human), Assessment, Perception(Psychology), Standardization, Validation, Military DESCRIPTORS:

3 and functions that the tests purport to measure. It is expected that such a battery will permit improved personnel management decisions to be made for a wider variety of Navy-relevant jobs than is currently battery that can be used as an assessment device for the evaluation of performance in a wide variety of situations. The standardized battery is being designed to possess high reliability and predictive validity for a wide variety of criterion tasks. there will be a firm theoretical and empirical base for inferring the information possessing structures This report describes the first study in a program of research dealing with the development and to include tests that possess construct validity: Equally important, the battery is being designed validation of a comprehensive standardized test possible using existing techniques.

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY -- 4043 594 5/9 SOUTHERN METHODIST UNIV DALLAS TEX DEPT OF STATISTICS AD-A043 594

Improving the Use of Educational Tests as Selection Tools,

3

Thomas, Jeannie Gouras ; Owen, 94

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D. B. ; Gunst, R. F. ; CONTRACT: AF-AFOSR-2871-75 PROJ: 2304

TASK:

TR-77-0855 AFOSR MONITOR: UNCLASSIFIED REPORT

Availability: Pub. in Jul. of Educational Statistics, v2 n1 p55-77 1977. DESCRIPTORS: *Personnel selection, Aptitude tests, Students, Statistical distributions, Predictions, Tables(Data), Reprints IDENTIFIERS: WUAFOSR2304A5, PE61102F

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predicting future performance of individuals.

Multiple regression is the most commonly used approach for this purpose, but occasionally it is desirable to use multiple cutoff scores. This paper provides Taylor-Russell type tables for determining the theoretical proportion of successful students in a selected subpopulation as a function of: the proportion successful in the unselected population; various intercorrelations; and the percentage cut on each of the two variables. Educational tests are used extensively for

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(Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

1-A041 735 5/10 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A041 735

Prediction of Air Force Technical Training Success from ASVAB and Educational

3

McCormick, Ernest J. ;

.Angelo S. ;Shaw, James B. ;

N00014-76-C-0274

REPT. NO.

Denisi

DESCRIPTIVE NOTE: Technical rept.,

59P

Job-Derived Selection: Follow up

Report.

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Enlisted personnel, Air Force personnel, Air force training, Technology, Performance(Human), Acceptability, Homogeneity, Personnel selection, Mathematical Mathematical prediction, Accuracy, Statistical distributions, Background, Education, Sex, Race(Anthropology), Statistical data,

models, Validation IDENTIFIERS: Success prediction, Armed Services Vocational Aptitude Battery, WUAFHRL77191008, WUAFHRL77191011, PE62703F

3

IDENTIFIERS: Position analysis questionnaires, General aptitude test battery, WUNR150372

3

DESCRIPTORS: *Job analysis, *Personnel selection,

UNCLASSIFIED REPORT

*Aptitude tests, Commercial equipment, Performance(Human), Predictions, Estimates, Validation, Questionnaires, Performance tests,

Jobs, Classification, Skills, Aptitudes, Ratings, Correlation techniques, Regression

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3 September 1973 through October 1975 were used as the sample in a series of analyses to (1) determine utility of educational data in predicting technical training success; (2) validate ASVAB, Form 3; (3) determine extent of overlap between education data based predictions and test based predictions; and (4) assess race and of race and sex could improve predictions. Finding background data contribute uniquely to prediction; contribution, and (3) some limited consideration (3) applies only to a limited subset of the 43 sex equity of predictions. Major findings are Nonprior service Air Force accessions during that: (1) both test data and educational (2) test data makes the largest unique training groups analyzed. (Author)

Background.

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DESCRIPTIVE NOTE: Final rept. 12 Nov 74-10 Feb 77, MAY 77 30P Valentine, Lonnie D. , Jr; PROJ: 7719

resulting in identification of 'job dimensions.'
Scores on these job dimensions were used to derive estimates of the aptitude requirements of jobs expressed in terms of test-related data based on the (9) tests of the General Aptitude Test estimating aptitude requirements of jobs represented 187 job elements that describe or imply basic human behaviors involved in jobs. The PAQ was subjected to a series of principal components analyses The PAQ is a structured job analysis questionnaire that provides for analysis of jobs of various types in terms of the relevance of each of substantial potential as the basis for estimating aptitude requirements of jobs. The use of such a report deals with the use of the PAQ within a job estimation of aptitude requirements for jobs. procedure (referred to as job component validity) validation of tests in some circumstances. This component validity framework as the basis for would preclude the need for conventional test The results show that the PAQ offers This study deals with the use of the Position Analysis Questionnaire (PAQ) as the basis for by scores on commercially-available tests Battery (GATB) of the U.S. Employment Service.

SOMOS DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

predicting Success in the AFROTC Scholarship Program.

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rept. Jan 76-Jan 77, Alley, William E. ; Gibson, Final 30 P DESCRIPTIVE NOTE: erry A.

AFHRL-TR-77-11

PROJ:

UNCLASSIFIED REPORT

*Reserve Officer Training Corps, *Personnel selection, Air Force personnel, Aptitude tests, Specialization, Predictions IDENTIFIERS: WUAFHRL77190247, PE62703F DESCRIPTORS:

measures, academic major, institutional selectivity, and eventual completion of the scholarship program. selection system appropriate for both pre- and postselection procedures in the AFROTC scholarship program. The objectives were to document predictive relationships, if any, between student aptitude composites) and institutional selectivity was found achieved for each of the 4-year, 3-year, and 2-year program could be forecast with prior knowledge of:
(a) applicant scores on the Air Force
Officer qualifying Test (AF0QT)=0Q Specifications were discussed to developing a dual to be non-essential for predicting ROTC training outcomes although the usefulness of the rated programs. The effects of additional information Officers' Training Corps (AFROTC)
participants during FY 71 through FY 75 (N = 23,000). Results indicated that success in the significant degree of predictive accuracy was composite and (b) the intended academic major training composites was again documented for undergraduate pilot and navigator training. Research was conducted to improve applicant (science and engineering versus other). A The analysis included records of student performance for all Air Force Reserve based on the AFDQT (Pilot and Navigator

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50W0Z SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY 5/9

Accuracy of Perceived Test-Item Difficulties.

3

DESCRIPTIVE NOTE:

Technical rept., 9P Prestwood, U. Stephen ;Weiss, MAY 77 David J.

RR-77-3 N00014-76-C-0243 RR04204 REPT. NO. CONTRACT: PROJ:

RR0420401 TASK:

UNCLASSIFIED REPORT

*Aptitude tests, *Computer aided instruction, Perception(Psychology), Mental ability, Difficulty, Accuracy, Correlation techniques IDENTIFIERS: Adaptive testing, PE61153N, *Test construction(Psychology), DESCRIPTORS: WUNR150382

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ability were constructed for administration to testees in two ability groups. Testees in both the high—and low-ability groups responded to each multiple-choice item by choosing the correct alternative and then rating the item's difficulty relative to their levels of ability. Least-squares estimates of item difficulty, which were based solely proportion-correct and latent trait estimates of item used in test construction, and that as testee abilit, that item-difficulty perceptions were highly related difficulty based on a norming sample. Results show level increased, the items were perceived as being on the difficulty ratings, correlated highly with to the objective indices of item difficulty often This study investigated the accuracy with which testees perceive the difficulty of ability-test items. Two 41-item conventional tests of verbal relatively less difficult.

entry training programs.

PAGE

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A040 754

Relationships between Performance on the Vocational Interest-Career Examination and Reported Job Satisfaction.

3

Alley, William E. : Wilbourn, DESCRIPTIVE NOTE: Interim rept. Jan 75-Jun 76, DEC 76 32P Alley.wil James M. ;Berberich,George L. ; REPT. NO. AFHRL-TR-76-89

7719

UNCLASSIFIED REPORT

*Aptitude tests, *Job satisfaction, Allocations, Effectiveness, Regression analysis, Air Force personnel, Enlisted personnel, Recruits, Careers, Personnel selection,

Vocational guidance
IDENTIFIERS: Vocational interests, Armed
Services Vocational Aptitude Battery,
WUAFHRL77190905, WUAFHRL77190908, PE62703F

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This report describes the validation of an Air

3 Examination (VOICE) was administered to 18,000 recruits during basic military training. After approximately one year on the job, they were surveyed to determine the extent to which they were satisfied Force vocational interest inventory in the enlisted force. The Vocational Interest-Career eventual job satisfaction and to explore moderating effects due to sex and aptitude scores. Results of analyses indicated that the VOICE subscale provided Recommendations for operational implementation of with their respective occupational assignments. Individual aptitude variables from the Armed Services Vocational Aptitude Battery relationships between entry-level interests and (ASVAB) served as control measures. Multiple regression analyses were used to characterize reliable and significant prediction of job satisfaction for both males and females. the procedure were discussed. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

STANFORD UNIV CALIF SCHOOL OF EDUCATION AD-A039 810

Theory and Method for Research on Aptitude Processes: A Prospectus.

3

Snow, Richard E. DESCRIPTIVE NOTE: Technical rept., 816 00

N00014-75-C-0882 TR-2 REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

Learning, Mental ability, Information processing, Teaching methods, Test construction(Psychology), Experimental design, Performance(Human), Short range(Time), Aptitude tests, Intelligence tests, Factor analysis, Intelligence, Humans, Psychological tests, Hypotheses IDENTIFIERS: *Cognition, Individual differences, DESCRIPTORS: *Aptitudes, *Memory(Psychology),

Short term memory, WUNR154376

3 3

3 views of cognitive processes are examined in relation to individual difference constructs and the methods available to and needed by research on aptitudes as reviewed to demonstrate the complementary strengths methods and concepts. A coordinated approach to the study of aptitude as information processing is thereon. Studies of short-term memory proceses are Individual difference constructs are discussed in relation to cognitive process models and research and weaknesses of experimental and correlational cognitive processes are discussed. Contemporary used to examine their reliability and validity. The theoretical and methodological concepts suggested. (Author)

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SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

FA039 270 5/10 5/9
EDUCATIONAL DEVELOPMENT CORP AUSTIN TEX AD-A039 270

Development of the Armed Services Vocational Aptitude Battery: Forms 8, 9, and 10.

3

DESCRIPTIVE NOTE: Final rept. 19 Dec 75-31 Jan 77, Fruchter, Dorothy A. ; Ree, MAR 77 104P Melcolm James ;

CONTRACT: F41639-76-C-0027

PROJ: 7719 MONITOR: AFHRL

TR-77-19

UNCLASSIFIED REPORT

construction(Psychology), *Personnel selection, Standardization, Military personnel, Recruits, Vocational guidance IDENTIFIERS: Armed services vocational aptitude battery, wUAFHRL77191015, PE62703F Sampling, Validation, Statistical analysis, *Aptitude tests, *Test DESCRIPTORS:

3 3

According to a specific geographic sampling plan, 16 experimental tryout booklets containing a total of 2,400 items were administered at the 64 Armed Forces examining and entrance stations (ADEES) to model. These three new forms were administered at the 64 AFEESs to samples of 1,479, 1,387, and 1,442 Forms 8, 9, and 10, respectively. These AFEES a sample of about 2,600 subjects. Three new forms of ASVAB were developed from a selection of these experimental items using ASVAB form 78 as a construct, edit, test on a national sample, and standardize three new versions of Armed Services Operational Form 7B was suggested as the example for item selection and the criterion for comparability with previous ASVAB forms. The purpose of the reported research was to Vocational Aptitude Battery (ASVAB), which would become ASVABE Forms 8, 9, and 10.

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20M09 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A039 268

Classification Typology for Predicting Performance in Air Force Technical Training

5

DESCRIPTIVE NOTE: Final rept. 1 Mar 75-30 Nov 76, Harris, Dickie A. ; DEC 76 11P REPT. NO. AFHRL-TR-76-91

PROJ: 1121 TASK:

UNCLASSIFIED REPORT

guidance, Instructional materials, Computer aided DESCRIPTORS: *Air Force training, *Technicians, Classification, Aptitude tests, Students, Predictions, Performance(Human), Vocational IDENTIFIERS: WUAFHRL11210310, PE62205F instruction

33

linear typal analysis were not demonstrated in this study. Further study was suggested in order to This study showed that technical training students groups, using linear typal analysis. However, the determine the practical significance of grouping individuals into groups, based on linear typal could be classified into potential instructional operational and practical consequences of using analysis. (Author)

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ASVAB 78. (Author)

Descriptive statistics were computed for each subtest and composite of the new forms and each new form was equated to identically named subtests and composites of ASVAB 78. The results indicate that the new Forms 8, 9, and 10 are equivalent to

subjects were also administered ASVAb Form 7B.

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF AD-A038 366

The Recruit Temperament Survey (RTS) as a Predictor of Para-medical Effectiveness Criteria,

3

Booth, Richard F. ; Bucky, Steven F.; Goffman, Jerry M.; REPT. NO. 74-12 PROJ: M4305 TASK: M430507

UNCLASSIFIED REPORT

*Recruits, *Aptitudes, *Paramedical sciences, Aptitude tests, Scaling factors, Surveys, Predictions, Indicators, Criteria, personnel, Hospitals, Scoring, Bench tests Effectiveness, Personnel selection, Naval DESCRIPTORS:

3

3 scales, which had been developed in previous studies, were evaluated as potential contributors to the prediction of effectiveness criteria for Navy background characteristics, as measured by the RTS, hospital corpsmen (HMs). A combined score on two standard Navy aptitude tests was used as the benchmark against which the unique validity of RTS scores was assessed. It was found that this specialty, had an average cross-validity of .17 (p less than .05) for predicting post-training effectiveness criteria. By adding the three RTS scale scores to this aptitude under the composite cross-validity for predicting these criteria was raised to .28 (p less than .001). This increase combined aptitude score, which was developed to predict final school grade in HM training and is presently used to select personnel for the HM can contribute to the prediction of Navy parawas highly significant (p less than .001) and indicates that personality, attitudinal, and medical effectiveness criteria. (Author) Three Recruit Temperament Survey (RTS)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

)-A038 114 5/10 5/9 Minnesota univ Minneapolis Dept of Psychology AD-A038 114

Applications of Computerized Adaptive Testing.

3

MAR 77 59P McBride, James R.; Sympson, James B.; vale, C. David; Pine, Steven M.; Bejar, Isaac I.; REPI. NO. RR-77-1 CONTRACT: N00014-76-C-0243; N00014-76-C-0244 DESCRIPTIVE NOTE: Technical rept.,

R04204

RR0420401

TASK:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Proceedings of a Symposium Presented at the Annual Convention of the Military Testing Association(18th), Oct 76.

DESCRIPTORS: *Adaptive training, *Psychological tests, Adaptive systems, Symposia, Performance tests, Aptitude tests, Classification, Test methods, Computer aided diagnosis IDENTIFIERS: *Adaptive testing, Psychometrics, WUNR150389, WUNR150383, WUNR150382,

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PE61153N

problem of classification; Applications of item characteristic curve theory to the problem of test bias; Applications of adaptive testing in measuring Contents: A brief overview of adaptive testing; Estimation of latent trait status in adaptive testing procedures: Adaptive testing and the achievement and performance.

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1-4037 589 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Selection and Classification of Enlisted Validation of Non-Verbal Measures for Personnel.

Wilbourn, James M. ; Guinn, DESCRIPTIVE NOTE: Final rept. Jun 73-Nov 76, DEC 76 24P Wilb Nancy ; Leisey , Sandra A . ; REPT. NO. AFHRL-TR-76-72

7719 PROJ:

UNCLASSIFIED REPORT

33 *Aptitude tests, *Personnel selection, Validation, Military personnel, Mental ability, Enlisted personnel, Classification IDENTIFIERS: WUAFHRL77190901, PE62703F DESCRIPTORS:

Additional aptitudinal and educational data were combined with the non-verbal tests to assess their A non-verbal aptitude battery was administered to 13,584 non-prior-service male basic airmen. usefulness in predicting final technical school

3 were added to the composite, the predictive efficiency of the composite increased. These findings substantiate the validity of the non-verbal test measures and the potential utility of including these measures in future operational test batteries. reached statistical significance in over 75% of the technical areas in both the total sample and lower ability subgroups, and the composite was found to make an unique and significant contribution to the were not found to be statistically significant in every technical course, figure analogies and dial reading appear to demonstrate the highest relationship with FSG. The multiple correlations grade. Although the correlations between the individual subtests and final school grade (FSG) Selector Aptitude Index (AI) along.
 When additional aptitudinal and educational data based on a composite of all non-verbal subtests prediction of FSG over and above the Armed Forces Vocational Aptitude Battery (ASVAB-

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

1-4037 522 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A037 522

Final rept. 1 Jul 74-30 Nov 76, Armed Services Vocational Aptitude Battery Development (ASVAB Forms 5,6, and 7). DESCRIPTIVE NOTE:

3

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Jensen, Harald E. ; Massey, DEC 76 20P Jersen, Haral Iris H. ;Valentine, Lonnie D. , Jr; REPT. NO. AFHRL-TR-76-87 PROJ: 7719

TASK: 10

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, Military personnel, Aptitudes, Classification, Standards, Personnel selection, Enlisted personnel IDENTIFIERS: WUAFHRL77191010, PE62703F

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Toward the objective of satisfying enlistment production requirements of all the services, ASVAB Forms 5,6, and 7 were redesigned to incorporate the content of current service classification batteries. The reconfigured battery contains 12 subscales plus the Army's Classification Inventory. Normative procedures included the administration of ASVAB 5.6, and 7 at a nationally representative composite from the Army Classification Battery took one form of the ASVAB along with the AFQT Examination Stations (AFEES). Each examinee sample of Armed Forces Entrance and

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cases was used in the development of scrvice norms.

(Author)

or ASVAB-3. A stratified random sample of 1,600

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

PURDUE UNIV LAFAYETTE IND DEPT OF PSYCHO' JGICAL 5/10 AD-A035 624

Job-Derived Selection: A Preliminary Rept.

DeNisi, Angelo S. ; Shaw, DESCRIPTIVE NOTE: Technical rept., James B. ; McCormick, Ernest J. ; NOV 76 30P

N00014-76-C-0274 CONTRACT:

UNCLASSIFIED REPORT

3 DESCRIPTORS: *Personnel selection, *Job analysis, Performance tests, Jobs, Skills, Ratings, Predictions, Validation, Questionnaires, *Aptitude tests, Performance(Human),

3 Correlation techniques, Regression analysis IDENTIFIERS: Position analysis questionnaire, General aptitude test battery, WUNR150372

general use, this study was directed toward using the specific tests would be 'valid' were also significant considered to measure the same 'constructs' as those measured by the GATB. The PAQ-based predictions is a structured job analysis questionnaire that provides for analysis of individual jobs in terms of 187 job elements. On the basis of such an analysis for various commercially-available tests which were Previous studies have found that regression equations consisting of these job dimensions scores. Can be used as the basis for predicting (with very respectable correlations) the mean test scores of incumbents on a sample of jobs in terms of the 9 tests of the General Aptitude Test Battery scores were all highly significant. However, the predictions for actual validity coefficients were PAQ as the basis for predicting test-related data predicted a test would be valid, the tests indeed understandably low. The prediction of whether not (GATB) of the U. S. Training and Employment Service. Since GATB tests are not available for for the criteria of mean test scores and cutoff The Position Analysis Questionnaire (PAQ) (in 75% of the cases for which the PAQ

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

PURDUE UNIV LAFAYETTE IND DEPT OF PSYCHOLOGICAL SCIENCES 5/10 AD-A035 623

The Prediction of Job Ability Requirements Position Analysis Questionnaire (PAQ). Using Attribute Data Based upon the

3

9

DESCRIPTIVE NOTE: Technical rept., OCT 76 78P Shaw,James B. :McCormick, Ernest J. :

N00014-76-C-0274 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Personnel selection, *Psychomotor tests, *Job analysis, Validation, Performance(Human), Predictions, Ouestionnaires, Ratings, Jobs, Correlation techniques, Estimates, Behavior, Skills, IDENTIFIERS: Job attributes, Attributes Criticality

Position analysis quest onnaires, WUNR150372

3 3

> is a structured job analysis procedure which analyzes jobs in terms of 187 job elements, using appropriate approaches to job component validity have been used, estimates of the aptitude requirements of jobs. PAQ those situations where traditional validation is difficult to apply, investigators suggest using a procedure which has most recently been called job component validity. A number of different validating personnel selection test procedures. In requirements. Special attention was focused on the promise. The various approaches have included use of data relating to the Position Analysis Questionnaire (PAQ) as the basis for deriving rating scales. Ratings of individual elements, in turn, can be used to derive scores on several job analysis data to derive estimates of job aptitude Investigators have suggested alternatives to the and in general research has revealed substantial dimensions. The other method consisted of rating the relevance of each of many human 'attributes' each of the individual job elements of the PAQ. combining the attribute-based data with the job use of traditional validation procedures for This study explores alternative methods of

prediction of psychomotor test requirements.

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proved to be valid predictors).

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

CONTEMPORARY RESEARCH INC LOS ANGELES CALIF Armed Services Vocational Aptitude Battery (ASVAB Form 5): Comparison with GATB and DAT Tests. AD-A035 305

DESCRIPTIVE NOTE: Final rept. May 75-Oct 76, Kettner, Norman; OCT 76 103P Ke

PROJ: 7719

AFHRL TR-76-78 MONITOR:

UNCLASSIFIED REPORT

33 Correlation techniques, Test methods, Statistical analysis, Analysis of variance IDENTIFIERS: WUAFHRL77191007, PE62703F DESCRIPTORS: *Aptitude tests, Comparison,

The purpose of this study was to compare test performance of high school students on the Armed Services Vocational Aptitude Battery (ASVAB) with the General Aptitude Test Battery (GATB) and the Differential Aptitude Tests (DAT). The design of the study provided for information on test intercorrelations, prediction equations for the ASVAB tests from the commercial were information type tests that had low to moderate were tested and each student took the ASVAB and one tests and conversion tables between highly similar tests across batteries. Separate comparisons were made by grade and sex. A total of 1,232 students correlation coefficient in the prediction of the correlations increased with grade. The multiple batteries. The correlations for the males were generally higher than for the females and the correlated highly with tests in the commercial batteries. The remainder of tests in the ASVAB correlations with the tests in the commercial other battery. Six of the tests in the ASVAB

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

ARMY TRAINING SUPPORT CENTER FORT EUSTIS VA COMMUNICATIVE TECHNOLOGY DIRECTORATE 5/10 AD-A034 445

The Testing of a Regression Model for Predicting the Progression Index in Various Army Courses.

3

3

DESCRIPTIVE NOTE: Technical rept., OCT 76 38P Howlett, John Leo; CTD-TR-76-3 REPT. NO.

UNCLASSIFIED REPORT

prediction, Computer applications
IDENTIFIERS: Computerized training systems, Self
paced training, Electronics aptitude test,
Surveillance and communications test DESCRIPTORS: *Army training, *Aptitude tests, *Officer personnel, *Maintenance personnel, Avionics, Programmed instruction, Adaptive systems, Performance(Human), Mathematical Repair, Radio equipment, Teletypewriters,

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3 the independent variables, and the progression index equation for the purpose of prediction of student This study was designed to establish whether a relationship exists in Army training between the Electronics Aptitude Score (EL), the Surveillance and Communications Score (SC) of student learning, the dependent variable. The study was also designed to develop a regression actual training time based on the two scores, EL establish a graduation prediction and subsequent and SC. The results could then be used to assignment of the student to his unit.

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ASVAB tests from the commercial tests ranged from

zero to .90.

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SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

JWK INTERNATIONAL CORP ANNANDALE VA 5/9 AD-A034 323

Armed Services Vocational Aptitude Battery (ASVAB) Form 5: High School Norming and Standardization.

3

DESCRIPTIVE NOTE: Final rept. Jun 75-Aug 76, OCT 76 50P Adkins, E. Robert ; TR-76-79 OCT 76 50P Adk CONTRACT: F41609-75-C-0044 PROJ: AF-7719 TASK: 771910 MONITOR: AFHRL

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Standardization, Students, Females, Males, Negroes, Schools

Aptitude Battery (ASVAB) was administered to over 35,000 male and female students in grade nine through twelve. The sample was selected to be representative of the students in the national high school population. Normative percentile tables were developed for each subtest and composite for form 5 of the Armed Services Vocational each grade and sex.

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20MOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

ROTHE DEVELOPMENT INC SAN ANTONIO TEX AD-A032 593

Armed Services Vocational Aptitude Battery (ASVAB) Correlational Analysis, ASVAB Form 2 versus ASVAB Form 5.

3

DESCRIPTIVE NOTE: Final rept. Sep 75-Aug 76, OCT 76 117P Fletcher, John ;Ree, Malcolm

CONTRACT: F41609-76-C-0006 PROJ: AF-7719 TASK: 771910

UNCLASSIFIED REPORT

TR-76-70

MONITOR: AFHRL

DESCRIPTORS: *Aptitude tests, *Test construction(Psychology), Students, Schools, Factor analysis, Scoring

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analysis, inter-test comparisons, correlation matrix factor in vocational testing, tentatively described as 'attention to explicit rules,' was A total of 2,052 U.S. high school boys and girls, selected from 10 geographical regions, were tested on consecutive half-days using the Armed generation, factor analysis and equipercentile calculations was conducted. Three new tests in the An extensive program of optical scanning, computer variation were minimized by experimental design. larger battery (ASVAB Form 5) were vocationally Seven tests common to both batteries had reliability coefficients of 0.56 to 0.76. A new training, environmental factors, and proctorial oriented as opposed to scholastically oriented. aptitude test batteries. Effects of fatigue, (ASVAB) Form 2 and ASVAB Form 5 vocational Services Vocational Aptitude Battery

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dentified.

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

-4032 109 5/10 JWK INTERNATIONAL CORP ANNANDALE VA

Representative Normative Tables for the Armed Services Vocational Apt tude Battery (Form

3

DESCRIPTIVE NOTE: Technical research note Jan-May 76. TRN-75-6 SEP 76 55P CONTRACT: F41609-75-C-0013 USMEPC PROJ: AFVTG-100 MONITOR:

UNCLASSIFIED REPORT

3 3 DESCRIPTORS: *Aptitude tests, *Vocational guidance, IDENTIFIERS: Armed services vocational aptitude Students, Recruits, Performance(Human), Psychological tests, Scoring, Counseling

Counselor's Manual and will serve as the ASVAB computer normative base for students tested beginning tables in the present report are designed for primary guide, as a supplemental reference to the individual summarizes test performance of a representative sample of 35,291 high school students tested on Form 5 of the Armed Services Vocational Aptitude Battery 18VAB). Separate weighted roomative tables are provided by subtest, aptitude composite, grade and sex. This research is furnished as a supplement to the ASVAB use by high school counselors as an interpretative student/counselor printout of test scores and as replace all preexisting ASVAB norms. Percentile look-up tables for plotting individual student 1 October 1976. Tables contained in the report This interim Technical Research Note nomographs.

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ARMED FORCES VOCATIONAL TESTING GROUP RANDOLPH AFB TEX 20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY 5/10 AD-A031 537

Reference Tables for the Armed Services Vocational Aptitude Battery.

3

DESCRIPTIVE NOTE: Technical research note, MAR 74 19P Wilfong, Harry D. ; Armstrong, AFVTG-TRN-74-1 REPT. NO. Ronald

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.

Performance(Human), Statistical distributions, Tables(Data), Mobilization, Military IDENTIFIERS: Vocational aptitude tests, High DESCRIPTORS: *Aptitude tests, Students, school students personnel

3 3

> school grade and sex--tested during school year 1972high school students during school year 1972-73. As such, the tabular summaries do not constitute bona mobilization population, but do characterize actual to provide geographic sampling and were replicated Test to produce a mobilization sample. The data were collected at 11 AFEES throughout the country based upon actual results of testing over 800,000 test performance of students -- stratified by high fide ASVAB norms, representative of any national deviations) in the 1973-74 edition of the ASVAB high school counselor's manual as a normative Vocational Aptitude Battery (ASVAB) were predicated upon a representative sample of 3050 referant. The present ASVAB reference data are Examining and Entrance Stations (AFEES) and stratified on the Armed Forces Qualification Pre-existing (prior to school year 1973-74) examinees, processed through Armed Forces (in terms of subtest means and standard reference norms for the Armed Services

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PAGE

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A030 334

Person-Job Match Preliminary Forecasting

Program.

DESCRIPTIVE NOTE: Interim rept. 18 Jan-30 Oct 75, Solomon, William B. : 19P

JUL 76 19P S NO. AFHRL-TR-76-56 PROJ:

TASK: 207704

UNCLASSIFIED REPORT

*Aptitude tests, *Contracts, Air Force personnel, Enlisted personnel, Time series analysis, Scheduling, Job analysis, Forecasting, Seasonal variations, Computer programs, FORTRAN IDENTIFIERS: Enlistment contracts *Personnel selection, *Volunteers, DESCRIPTORS:

The program computes trend and seasonal components. future talent of applicants facilitates optimal as nament solution as new recruits enter the applicant pool. The program uses data compiled on A time series analysis program was developed to forecast the quality (i.e., means and standard deviations of aptitude scores) and quantity (i.e., total number of applicants) of the Air and (c) total number of applicants. Results are Applying these components to forecast for each Examination from July 1971 through June 1974. summarized as absolute deviations and squared subjects who had taken the Airman Qualifying Force's future applicant pool. Forecasting month: (a) means, (b) standard deviations, deviations. (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

)-4029 517 5/10 5/9
AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A029 517

Comparison of ASVAB Test-Retest Results of Male and Female Enlistees.

3

3

Valentine, Lonnie D. , Jr.; DESCRIPTIVE NOTE: Final rept. Jul 74-Oct 75, 23P JUN 76

REPT. NO. AFHRL-TR-76-43 PROJ: AF-7719 Massey, Iris H. ;

771912

TASK:

UNCLASSIFIED REPORT

analysis, Analysis of variance IDENTIFIERS: Armed services vocational aptitude *Attitudes(Psychology), Enlisted personnel, Air Force personnel, Males, Females, Comparison, Performance(Human), Statistical *Aptitude tests, DESCRIPTORS:

33

battery, Test retest programs

3 3

> USAF Enlistment Attitude Survey administered shed no light on possible cause for lower scores on general. Both males and females tended to do poorer Males scored higher on mechanical and electronics, on retest that they had on the original test. The with expectations based on known test reliability suggests that non-standard testing conditions may Male and female enlistees were compared on the basis of their performance on the Armed Services Vocational Aptitude Battery, Mean Aptitude enlistees on the original testing and on retest. and females scored higher on administrative and retest. Comparisons of test-retest correlations Index scores were compared for male and female prevail in operational testing.

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

OPERATIONS RESEARCH INC SILVER SPRING MD AD-A027 526

3 Handbook for the Development of Qualifications for Personnel in New Technology Systems.

Stoehr, Leonard A. : Paramore, DESCRIPTIVE NOTE: Final rept. Jul 75-Jun 76 61P JUN 76 Barbara ;

OR1-TR-1012 REPT. NO. CONTRACT: MONITOR: U

DOT-CG-41903-A USCG D-75-76

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A026 108, AD-026 109, and AD-A026 110.

Personnel selection, Liquefied natural gas.
Nuclear powered ships, Marine engineering.
Technology, Hazards, Cargo handling, Safety,
Handbooks, Qualifications, Data management
IDENTIFIERS: *Technology innovation, Projects, DESCRIPTORS: *Job analysis, *Aptitude tests, *Marine transportation, *Merchant vessels, New technology

3 Functional Job Analysis -- has been adapted for use in delineating qualifications needed by personnel and developed and applied in two demonstration projects, liquefied natural gas cargo handling personnel and nuclear ship engineering personnel. The procedures address special problems involved in performing a analytic structure, the writing of complete task descriptions within a system function framework, procedures for supporting the reliability and validity of the task data produced in the generally applicable analysis that reflects the unique hazards and safety requirements of marine type of system, data sources, development of an in new types of vessel systems. The method was from which qualifications were recommended for handbook form. It covers definition of the new occupations. The report on the method is in An established method of task analysis --

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY AD-A026 470

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Airman Classification Batteries from 1948 to 1975: A Review and Evaluation.

3

Weeks, Joseph L. : Mullins, DESCRIPTIVE NOTE: Interim rept. Jul 74-Mar 75, Cecil J. ; Vitola, Bart M. ; DEC 75 55P

REPT. NO. AFHRL-TR-75-78 PROJ: AF-7719 TASK: 771910

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Air Force personnel, Job analysis, Reliability, Standardization, Test construction(Psychology)

3

Force employed ten different multiple aptitude batteries for the purpose of either classifying or selecting and classifying nonprior service enlistees. evaluated in terms of standardization, reliability, Each of the different batteries is described and From 1948 to 1975, the United States Air and validity.

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16

PAGE

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD-A025 412 5/10
NAVAL POSTCRADUATE SCHOOL MONTEREY CALIF

A Culture-Free Performance Test of General Learning Ability.

Young, Peter Adams; DESCRIPTIVE NOTE: Master's thesis, 78P

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, *Mental ability, Performance(Human), Information processing, Learning, Race(Anthropology), Males, Naval personnel, Test methods, Psychological tests

pacing mode (self-paced, Machine-paced), and stimulus similarity. Subjects were 121 white and 39 but was present only in the white subgroup when the sample was divided by race. Stimulus similarity did general learning ability was practicable, although its validity with respect to on-job performance has choice multiple discrimination learning paradigm designed to test individual learning ability. Information processing rate (IPR) was used as the measure of learning ability. Variables in the test design were: racial group (white, nonwhite). White performance was superior to nonwhite only in Test (GCT) scores was seen for the entire group, learning effect was demonstrated, with internal (split-half) test reliability of .84 overall. the machine-paced mode. Significant correlation not prove to be a significant factor. It was concluded that a reliable, culture-free test of nonwhite male Navy recruits. Over 10 trials, a Random polygons were used as stimuli in a twobetween IPR and Navy General Classification yet to be established. (Author)

UNCLASSIFIED

20MOS DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

1-4025 328 5/10 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A025 328

Purpose Prediction Systems in the Absence of VARSEL: Variable Selection for Multiple-External Criteria.

3

3

Interim rept. 1 Jan 74-31 Jul 75. P Gould,R. Bruce ;Christal, 16P DESCRIPTIVE NOTE: MAY 76

REPT. NO. AFHRL-TR-76-6 PROJ: AF-7734 TASK: 773405 Raymond E. ;

UNCLASSIFIED REPORT

3

construction(Psychology), *Air Force personnel, Algorithms, Mathematical prediction, Performance(Human), Regression analysis, Personnel selection, Statistical processes, DESCRIPTORS: *Aptitude tests, *Test Computer applications

VARSEL aptitude test algorithm IDENTIFIERS:

large pool of variables and select a minimum subset which can account for the domain of reliable variance algorithm developed for use when no adequate external accretion variable selection process to start with a battery, and inventory developers in selecting items selection criterion is available. The algorithm uses a multiple linear regression technique and an measured by all variables in the pool. Two example subset of tests from a battery of 56 tests and (b) selection of a subset of job attitude items from a pool of 348 items. aptitude tests is a recurrent problem for test, applications are presented: (a) selection of a instruments. This report presents a computing The absence of suitable external criteria for or tests for inclusion in final operational

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

COAST GUARD WASHINGTON D C OFFICE OF PERSONNEL

Predicting Performance at Coast Guard Class The Effectiveness of Selection Tests in A. Schools: I. Machinery Technician School, Yorktown, Virginia.

3

Lang, Darryl A. ; Final rept., MAR 76 34P DESCRIPTIVE NOTE: REPT. NO. 1510-3

UNCLASSIFIED REPORT

3 3 DESCRIPTORS: *Aptitude tests, *Personnel management, Mathematical prediction, Test methods, Selection, Correlation techniques, Technicians, Schools, construction(Psychology), Recruits, Jobs IDENTIFIERS: Armed forces vocational aptitude *Coast Guard, Performance(Human), battery, Navy basic test battery Regression analysis, Test

3 results produce higher correlations with final school composites are good predictors of performance at MK grade than the present composites. Accordingly, the new composites are recommended as replacements School performance data was sent to Coast Guard headquarters, i.e. final school grades, attrition information, and rephase information. The data collected at Machinery Technician school (MK) school. The new composites suggested from the was correlated with test scores. Regression analyses revealed that the BTB and ASVAB Coast Guard recruits were administered the for the present BTB and ASVAB composites. ASVAB and BTB tests at Recruit Training Centers. Subsequently, their Class A

UNCLASSIFIED

20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF AD-A023 250

Aptitude Levels and Impact on the Personnel Establishing Aptitude Requirements for Air Force Jobs: Historical Review of System.

3

DESCRIPTIVE NOTE: Final rept. 1 Jul 71-1 Jul 72, OCT 75 35P Maginnis, Elene B. ; Uchima OCT 75 35P M Ansho; Smith, Carol E.;

CONTRACT: F41609-71-C-0033 TASK: 113701

TR-75-44(1) MONITOR: AFHRL

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, Job satisfaction, Promotion(Advancement), Air Force training, Effectiveness, Performance(Human), Impact, Ratings, Air Force personnel, Assessment Job analysis, Scoring, Systems analysis, Level (Quantity), Selection,

3

influences on promotion, performance, and job/service batteries with some comparisons of minimum aptitude analysis of estimated impacts of different aptitude presents a review of the military service aptitude scores required for entry to military occupational levels for enlistment on elements of the personnel This report is the first in a series of three. It system leads to a statement of salient negative minimums are traced and summarized. A systems areas. Change in Air Force aptitude score satisfaction. (Author)

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20MOS DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

1-4023 118 5/9 5/10 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD-A023 118

Validation of ASVAB-2 Against Civilian Vocational-Technical High School Criteria.

Jensen, Harald E. ; Valentine, DESCRIPTIVE NOTE: Final rept. Jul 74-Feb 76, MAR 76 34P Lonnie D., Jr.; REPT. NO. AFHRL-TR-76-16 PROJ: AF-7719

UNCLASSIFIED REPORT

771910

TASK:

ESCRIPTORS: *Aptitude tests, *Vocational guidance, Psychological tests, Courses(Education), qualifications, Recruiting, Validation, Performance(Human), Students, Training DESCRIPTORS:

3

between performance of high school students on the components and composites of the (Armed Services Vocational Aptitude Battery) ASVAB-2 and their subsequent performance in civilian vocational-technical courses. Applicability of current Air Force composities to specific vocational categories This technical report presents the relationship is also presented.

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY 0-4020 867 5/10 5/9 NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO AD-A020 867 CALIF

An Evaluation of Computerized Tests as Predictors of Job Performance: II. Differential Validity for Global and Job Element Criteria.

3

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DESCRIPTIVE NOTE: Final rept. 1 Jul 72-30 Jun 73.
JAN 76 60P Cory, Charles H.;
REPT. NO. NPRDC-TR-76-28
PROJ: NR-150-335, RR042-04 TASK: RR042-04-01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Aug 74, AD-782 527.

Memory(Psychology), Validation, Motion, Detection, Naval personnel, Test methods, Ratings, Sonar personnel, Mathematical predicti IDENTIFIERS: Movement prediction DESCRIPTORS: *Performance(Human), *Aptitude tests, *Computer applications, Information processing, Job analysis, Assessment,

33

 $\widehat{\Xi}$ The report presents data concerning the validity of a set of experimental computerized and paper-and-pencil tests for measures of on-job performance on global and job elements. It reports on the usefulness of 30 experimental and operational variables for predicting marks on 42 job elements and on a global criterion for Electrician's Mate, Personnelman, Sonar Technician, and Apprenticeship rating groups.

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SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

ARMED FORCES VOCATIONAL TESTING GROUP RATIOLPH AFB TEX

Armed Services Vocational Aptitude Battery to Success in High School Vocational-A Concurrent Validity Study Relating the Technical Courses. DESCRIPTIVE NOTE: Final technical research rept. Sep 74-

Bower, George L. ; Lewis, John R. : Krockover, Bernard J. : REPT. NO. AFVIG-TRR-74-5 PROJ: AFVIG-117 75 50P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. AFVTG-TRN-74-4. AD-4007 681 and Rept. no. AFVTG-TRN-75-1, AD-

DESCRIPTORS: *Aptitude tests, *Vocational guidance, Test construction(Psychology), Predictions, Validation, Performance(Human), Schools, Aptitudes, Ratings, Reliability, Personnel development, Counseling, Courses(Education), Students, Military personnel, Comparison,

3 3 IDENTIFIERS: Armed services vocational aptitude battery, Success prediction

3 ASYAB) results in local and state career guidance and counseling programs. The study examined the validity of specific ASVAB composites from a sample of 6,130 students in 25 high schools offering vocational-technical curricula. School samples were This report is primarily designed for reference by educational testing measurement specialists as a supplemental guide to interpretation of Armed obtained through voluntary participation. Services Vocational Aptitude Battery

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SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A018 758

A Study of Computer-Administered Stradaptive Ability Testing.

3

Vale, C. David ; Weiss, David DESCRIPTIVE NOTE: Research rept., 51P OCT 75

3

N00014-67-C-0113-0029 NR-150-343, RR042-04 RR-75-4 RR042-04-01 REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Psychometric Methods Program. See also report dated Feb 75, AD-A007

construction(Psychology), *Computer applications, Psychological tests, Test methods, Students, Universities, Statistical analysis IDENTIFIERS: Stradaptive testing, Abilities Adaptive systems, Individualized training, DESCRIPTORS: *Aptitude tests, *Test

33

items responded to with question marks. Analysis of difficulties of items associated with connect, incorrect, and question mark responses suggested that items with question mark responses should not be ignored, but should be treated as incorrect responses in branching decisions. Suggestions for future research on the stradaptive testing model are stradaptive vocabulary test were administered by a time-shared computer system to undergraduate college students. The two stradaptive tests differed in A conventional vocabulary test and two forms of a that one counted question mark responses (i.e., omitted items) as incorrect and the other ignored

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sample.

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

3 MCDONNELL DOUGLAS ASTRONAUTICS CO-EAST ST LOUIS MO Automated Pilot Aptitude Measurement AD-A018 151 System.

Long, George E. ; Varney, DESCRIPTIVE NOTE: Final rept. Jul 73-Jul 75, SEP 75 131P

CONTRACT: F41609-73-C-0037 PROJ: AF-1137

TASK: 113701

AFHRL MONITOR:

UNCLASSIFIED REPORT

33 DESCRIPTORS: *Pilots, *Flight training, *Automatic Regression analysis, Aptitudes, Automation, Predictions, Training planes IDENTIFIERS: T-41 aircraft, T-37 aircraft Performance(Human), Feedback, Selection, pilots, *Aptitude tests, *Learning,

success in undergraduate pilot training (UPT) through the measurement of performance on a learning sample of flight tasks administered prior to the current procedures. These performance measures were learning sample. Also, candidates who were eliminated from both phases of training, including those eliminated for Manifestation of predicted from performance on the learning sample. highly correlated with performance measures on the initiation of training. The learning sample which would be used to augment existing pilot selection procedures was proposed as a means of reducing attrition during UPT. Performance measures on a 178 candidates for UPT selected for training with then compared with performance during I-41 and I-Grades given by instructors in T-41 training were performance in both phases of training could be Measurement System (APAMS) were collected from This study addresses the problem of predicting administered with an Automated Pilot Aptitude 37 phases of UPT. The results indicated that limination (SIE), as well as eliminees for lying Training Defiency (FID) could be five hour learning sample of flight tasks, Apprehension (MOA), Self Initiated

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

AMERICAN INSTITUTES FOR RESEARCH WASHINGTON D AD-A015 719

Ability Requirements, and Problem-Solving Requirements: IV. Task Characteristics, Methods for Predicting Job-Ability Strategies.

3

DESCRIPTIVE NOTE: Final rept. 15 Mar 72-30 Sep 75, SEP 75 83P Wheaton, George R.; Rose, Andrew M. : Fingerman, Paul W. : REPT. NO. AIR-31300-9/75-FR, AIR-R75-2 CONTRACT: N00014-72-C-0382

RR042-04-02

NR-151-347, RR042-04

TASK:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Apr 75, AD-A010 469.

Problem solving, Aptitude tests, Naval personnel, Jobs, Predictions, Maintenance, Factor analysis, DESCRIPTORS: *Aptitudes, *Performance(Human), *Abilities, Task performance Auditory signals IDENTIFIERS: *Abi

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a program of research dealing with the relationships between the characteristics of human tasks and the abilities required for task performance. The goal of the program has been to generate principles which can be used to identify ability requirements from knowledge of the characteristics of a task and of were examined within the context of the troubleshooting and problem-solving tasks previously and final study, possible interactions among task variations, ability profiles and subject strategies consequent changes in the abilities related to task The report describes the fourth and final study in Such knowledge has important implications for both previous studies examined the relationship between variations in an auditory signal identification, a variations in task characteristics. In the fourth variations in the conditions of task performance. that complex changes in the ability requirements troubleshooting, and a problem-solving task, and selection and training of personnel. The three related to performance occurred in response to performance. The results of these studies were

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PAGE

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

MICHIGAN UNIV ANN ARBOR HUMAN PERFORMANCE CENTER AD-A015 416

Acquisition of Understanding and Skill in Relation to Subjects' Preparation and Meaningfulness of Instruction,

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Mayer, Richard E. ; Stiehl, C. Christian : Greeno, James G.; CONTRACT: F44620-72-C-0019 PROJ: AF-1949

Availability: Pub. in Jnl. of Educational Psychology, v67 n3 p331-350 1975 UNCLASSIFIED REPORT

DESCRIPTORS: *Learning, *Students, Universities, Aptitude tests, Performance tests, Instructions, Algorithms, Skills, Reprints

3

3 aptitude scores, but little or no aptitude difference The former appears more closely related to conceptual understanding, the latter to computational distinguished-identifying relevant information in the posttest items requiring understanding, but subjects meaningful instruction than did subjects with lower with emphasis on computation were better on simple problems. Subjects with higher measured aptitudes experience, method of instruction, and differences directly relevant to instruction or given relevant among posttest items. Instruction that emphasized meanings of concepts led to better performance on was found for instruction emphasizing algorithms. problem situation and carrying out computations. preinstructional experience had more success in Four experiments examined effects of college student subjects' aptitudes, preinstructional Finally, two kinds of operations were Skill. (Author)

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ARMED FORCES VOCATIONAL TESTING GROUP RANDOLPH AFB TEX SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY AD-A014 979

Armed Services Vocational Aptitude Battery to Success in High School Vocational-A Concurrent Validity Study Relating the Technical Courses. Addendum.

3

DESCRIPTIVE NOTE: Final technical research note Apr 74-Bower, George I. : Lewis, 75 28P John R. ; Jan 75, NAO

REPT. NO. AFVTG-TRN-75-1 PROJ: AFVTG-117

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. AFVTG-TRN-74-5 dated Jan 75 and also Rept. no. AFVTG-74-4 dated Jan 75, AD-A007 681.

IDENTIFIERS: Armed services vocational aptitude DESCRIPTORS: *Aptitude tests, Ratings,
Predictions, Vocational guidance, Schools,
Courses(Education), Aptitudes, Technicians,
Maintenance personnel, Specialists, Validation battery

3 3

> designed for use by high school counselors, service enrolled in 25 high schools situated in the northeast, mid-west and far west regions of the country. Also included in this note is a suggested guide to the interpretation of the Armed Services Vocational Aptitude Battery (ASVAB) results in local guidance and counseling programs, and is This note is an abstract of a more comprehensive treatment of the data contained in Armed Forces Vocational Testing Group (AFVIG) Technical Research Report 74-5. It is a supplemental test administrators and educational specialists. technical courses in which 5,211 students were This addendum to the original study presents Expectancy Tables for 28 civilian vocational-ASVAB interpretative guide.

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

-A014 466 5/9 5/10 AKRON UNIV OHIO DEPT OF PSYCHOLOGY AD-A014 466

Relationships Among Job Structural Attributes, Retention, Task Descriptions, Aptitudes and Work Values.

Barrett, Gerald V. : Bass, MAY 75 63P Barrett, Gerald V. ; Bernard M. ; D'Connor, Edward U. ; Alexander, DESCRIPTIVE NOTE: Technical rept., N00014-74-A-0202-0001 Ralph A. ; Cascio, Wayne F. ; PROJ: NR-151-351 REPT. NO. TR-3 CONTRACT:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Rochester Univ., N.Y. and Florida International Univ., Miami.

DESCRIPTORS: *Naval personnel, *Job analysis, Retention(General), Attitudes(Psychology), Psychological tests, Aptitude tests, Job satisfaction, Maintenance, Monitoring

3 developed to measure descriptions of current jobs and Naval retention was related to a number of individual and job attributes. Extended Naval tenure was associated with lower verbal and clerical aptitudes (Naval Test Battery); higher levels of activity preference, pride in work, personal relations, and satisfaction with supervision and the showed that Naval personnel who indicated a greater future; and a belief that others shape and control attributes characterized their current jobs less work itself; a less explicit description of the discrepancy between preferred and described job nonsupervisory Naval maintenance and monitoring electronics personnel. Results indicated that job structural attribute preferences. Results The report describes field studies involving ones future. The Attribute Preference Scale/ Attribute Description Scale (APS/ADS) was

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

AMERICAN INSTITUTES FOR RESEARCH WASHINGTON D AD-A010 469

ŏ Requirements: III. Ability Requirements as a Function of Changes in the Characteristics a Concept Identification Task. Methods for Predicting Job-Ability

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Ellen :Rose, Andrew M. : Wheaton, George R. : DESCRIPTIVE NOTE: Technical rept. 1 Jan 74-31 Oct

REPT. NO. AIR-R75-1, AIR-31300-4/75-TR-3 CONTRACT: N00014-72-C-0382 PROJ: NR-151-347, RR042-04 TASK: RR042-04-02

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Aug 74, AD-785 868.

Aptitude tests, Naval personnel, Planning, Problem solving, Jobs, Predictions, Reasoning, DESCRIPTORS: *Aptitudes, *Performance(Human), IDENTIFIERS: Abilities, Task performance Test construction(Psychology), Factor

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investigated the relationship between variations in a experimental conditions, and then received a battery of reference tests designed to measure abilities which were hypothesized to relate to problem-solving abilities required for task performance. The goal of the program is to generate principles which can be used The report describes the third study in a program of research dealing with the relationships between the characteristics of human tasks and the abilition to identify ability requirements from knowledge of the characteristics of a task and of variations in the conditions of task performance. Such knowledge has important implications for both selection and abilities related to problem-solving performance. Characteristics of the problem-solving task were manipulated by varying the formal difficulty and performed the criterion task under the different perceptual complexity of the problems. Subjects identification, and consequent changes in the prototypic problem-solving task, concept training of personnel. The present study

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performance.

PAGE

SEARCH CONTROL NO. ZOMOS MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY DDC REPORT BIBLIDGRAPHY AD-A006 733

An Empirical Comparison of Two-Stage and Pyramidal Adaptive Ability Testing.

3

Larkin, Kevin C. ; Weiss, DESCRIPTIVE NOTE: Technical rept., CONTRACT: N00014-67-A-0113-0029 PROJ: NR-150-343, RR042-04 316 REPT. NO. RR-75-1 FEB 75 David J.

UNCLASSIFIED REPORT

RR042-04-01

3 ESCRIPTORS: *Aptitude tests, *Computer applications, *Adaptive systems, Difficulty, Test construction(Psychology), Test methods, Time, *Individual differences, *Pyramidal Optimization, Response IDENTIFIERS: *Individual DESCRIPTORS:

3 testing

3 are evaluated, and a tentative estimate of ability is administrators to tailor or adapt tests to individual by a strategy determined prior to testing, and at one or more points in the testing, a testee's responses procedure permits testing time to be shortened without reducing either the reliability or validity of an interactive computer system has enabled test differences in testee ability. Items are selected made. Subsequent items are generally selected according to the testee's estimated ability. This The administration of ability test items by means has other advantages over conventional tests (see Weiss and Betz, 1973). Comparisons are made of the test. Computerized adaptive testing also with pencil and paper methods.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO9 1-4006 385 5/9 5/10
ILLINDIS UNIV SAVOY AVIATION RESEARCH LAB

Basic Attention Measures as Predictors of

Success in Flight Training.

3

North, Robert A. ; Gopher, DESCRIPTIVE NOTE: Technical rept., 116 OCT 74 Daniel ;

TR-75-0388 REPT. NO. ARL-74-14/AFOSR-74-9 CONTRACT: F44620-70-C-0105 AFOSR PROJ: AF-9778 MONITOR:

UNCLASSIFIED REPORT

DESCRIPTORS: *Flight training, *Aptitude tests, *Performance(Human), Attention, Mathematical prediction, Performance tests, Reaction time, Tracking, Analysis of variance, Test construction(Psychology), Air Force research, Pilots, Students, Instructors IDENTIFIERS: *Individual differences,

3 3

Comparison

3 capabilities and the validity of these differences in between separate and concurrent performances of these processing reaction-time task and a one-dimensional measuring individual differences in basic attention differences in basic attention capabilities suggest tasks, and simultaneous performances also included Compensatory tracking task. Comparisons were made comparisons involving changes in task priorities. potential of a new methodological technique for A two-stage study was conducted to assess the performance testing system included a digitseveral dimensions for their description. Results indicating consistent individual predicting success in flight training. A

24 PAGE

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY ZOMOS SEARCH CONTROL NO. ARMED FORCES VOCATIONAL TESTING GROUP RANDOLPH AFB

Services Vocational Aptitude Battery (1973-Percentile Normative Tables for the Armed

3

DESCRIPTIVE NOTE: Technical rept., OCT 74 71P Gopher, Daniel ; North, Robert

ARL-74-21/AFOSR-74-15

REPT. NO. CONTRACT:

F44620-70-C-0105

Manipulation of Dual-Task Demands.

ILLINDIS UNIV SAVOY AVIATION RESEARCH LAB The Measurement of Operator Capacity by

DDC REPORT BIBLIOGRAPHY

UNCLASSIFIED

Wilfong, Harry D. : Armstrong DESCRIPTIVE NOTE: Technical research note (Final),

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, Ratings, Students, Schools, Performance (Human), Tables (Data)

3

school year 1973-74, with separate normative tables provided by sub-test, aptitude composite, grade, sex and geographic region. New data are provided for The current report summarizes test performance for 771,031 students tested on Armed Services Vocational Aptitude Battery Form 2 during

3 3

DESCRIPTORS: *Flight training, *Performance tests, *Aptitude tests, Performance(Human), Measurement, Difficulty, Pilots, Attention,

UNCLASSIFIED REPORT

TR-75-0409

AFOSR

Human factors engineering, Analysis of variance,

Air Force research, Test methods, Experimental

*Task performance, *Individual

IDENTIFIERS: differences

UNCLASSIFIED

74) School Year Data Base.

3

Ronald J.; Huckell, Raymond K., Jr; REPT. NO. AFVTG-74-3 PROJ: AFVTG-100

ninth grade and post-high school students.

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processing, reaction-time task, and a one-dimensional measures as predictors of success in flight training.

tracking task. Comparisons were made between

The performance testing system included a digit-

methodological technique for measuring operator load and individual differences in basic attention

This research assessed the potential of a new

capabilities. In addition, a preliminary validation study was conducted to evaluate the new

separate and concurrent performance of these tasks with adaptive adjustment of task difficulty for each subject. Concurrent performance was manipulated in several combinations of performance demands and task

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

ARMED FORCES VOCATIONAL TESTING GROUP RATOLPH AFB ND-A005 288

Predicting Academic Success in Secondary Schools from the General Technical Composite on the Armed Services Vocational Aptitude Battery.

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DESCRIPTIVE NOTE: Technical research rept., DEC 74 17P Harris,Randolph K. ;Huckell, DEC 74 17P

REPT. NO. AFVIG-74-2 PROJ: AFVIG-117

UNCLASSIFIED REPORT

33 ESCRIPTORS: *Students, *Aptitude tests, Schools, Aptitudes, Coefficients, Correlation techniques, Texas, Predictions San Antonio(Texas) DENTIFIERS: SESCRIPTORS:

levels represented in the various samples go from the highest to the lowest ranges, limited generalizations used nor conclusions presented in this study should be construed as representative of high schools correlations between student scores on the General Technical (GT) composite of the Armed Services Vocational Aptitude Battery and cumulative grade point averages (GPAs). Data from a sample at 22 secondary schools in the San Antonio metropolitan area. Neither the samples may be meaningful to other school districts with throughout the country. Since socio-economic The Technical Research Note reports similar diverse populations.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

NAVAL SUBMARINE MEDICAL RESEARCH LAB GROTON CONN Shallow Habitat Air Dive (SHAD-I): Psychological Screening of Divers as Subjects for Long Duration Saturation Experimentation. AD-A002 707

DESCRIPTIVE NOTE: Medical research progress rept. no. 31, Weybrew, Benjamin B. ; REPT. NO. NSMRL-776 60P

3

UNCLASSIFIED REPORT

acquisition, Factor analysis, Long range(Time), DESCRIPTORS: *Divers, *Psychological tests, *Aptitude tests, *Naval operations, Personnel selection, Performance(Human), Test methods, Submarine personnel, Interviewing, Data Motivation, Attitudes(Psychology),

Questionnaires IDENTIFIERS: Personnel screening tests

33

(Diver biographical inventory) and were subjected to a semi-structured clinical interview before and independent sample of 64 USN divers, and provided the basis for selecting two SMAD subjects and two This study was designed to provide some insights to possible psychological screening criteria for S. Navy divers being considered for special operational assignments. Four USN divers who had volunteered for SHAD-1 (Shallow Habitat Air Dive) were administered the DPSS (Depression proneness sentence stems), the MMPI (Minnesota after a 30-day, hyperbaric (50 F.S.W.) experiment. These test and interview data were compared with the same data obtained from an multiphasic personality inventory), the DBI

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back-up divers.

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A001 230

Simulation Studies of Two-Stage Ability

Testing.

Weiss, David J. ; Betz, Nancy DESCRIPTIVE NOTE: Research rept., 52P RR-74-4 OCT 74 REPT. NO.

UNCLASSIFIED REPORT

N00014-67-A-0113-0029

CONTRACT:

SUPPLEMENTARY NOTE: Report on Psychomatric Methods Program. See also report dated Feb 73, AD-757

*Aptitude tests, *Reviews, Theory, Automation, Test methods Abilities Reliability, IDENTIFIERS: DESCRIPTORS:

33

3 distribution of underlying ability. Ability estimates yielded by one of the two stage tests were more reliable and had a slightly higher relationship to underlying ability than did the conventional test scores. Several improvements in the construction of ability test. Results showed that scores yielded by study the psychometric characteristics of two twoboth two-stage tests better reflected the normal stage adaptive tests and a conventional 'peaked' two-stage tests are suggested for use in further Monte Carlo simulation procedures were used to

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AMERICAN INSTITUTES FOR RESEARCH SILVER SPRING MD AD- 785 868

Requirements: II. Ability Requirements as a Function of Changes in the Characteristics of Methods for Predicting Job-Ability an Electronic Fault-Finding task.

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DESCRIPTIVE NOTE: Technical rept. 15 Mar-31 Dec 73 AUG 74 94P Rose, Andrew M. ; Fingerman, Paul W. ; Wheaton, George R. ; Eisner, Ellen ; AIR-R74-6, AIR-31300-8/74-TR CONTRACT: N00014-72-C-0382 Kramer, Gloria; REPT. NO.

PROJ: NR-151-347, RR042-04 TASK: RR042-04-02 UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Sep 73, AD-769 073.

*Performance(Human), Faults, Identification, Jobs, Predictions, Reasoning, Employment, Test construction(Psychology), Students IDENTIFIERS: Abilities, Task performance DESCRIPTORS: *Aptitude tests,

33

the characteristics of a task and of variations in the conditions of task performance. The present study investigated the relationship between variations in an electronic fault-finding task and consequent changes in the abilities related to fault-finding performance. Characteristics of the faultabilities program is to generate principles which can be used to identify ability requirements from knowledge of the different experimental conditions. To determine then proceeded to perform the criterion task under The report describes the second study in a program between difficulty and perceptual complexity. Subjects received a battery of reference ability tests and the relationship between task characteristics and structure. The loadings of the various criterion ability requirements, the reference battery was factor analyzed to identify a reference ability finding task were manipulated by varying formal required for task performance. The goal of the task conditions on that structure were then of research dealing with the relationships the characteristics of human tasks and the

estimated. (Modified author abstract)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 783 553 5/10
MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY

An Empirical Investigation of Computeradministered Pyramidal Ability Testing.

3

DESCRIPTIVE NOTE: Research rept.,
JUL 74 64P Larkin, Kevin C. ; Weiss,
David J. ;

REPT. NO. RR-74-3 CONTRACT: NC0014-67-A-0113-0029 PROJ: RR042-04, NR-150-343 TASK: RR042-04-01 UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: *Aptitude tests, *Computer applications, *Adaptive systems, Students, Universities, Test methods, Sequential, Memory(Psychology), Psychological tests IDENTIFIERS: *Scoring systems

Three pyramidal adaptive tests and a conventional peaked test were constructed and administered by time-shared computer to two separate groups of students enrolled in undergraduate psychology courses. Six different methods of scoring pyramidal tests were evaluated with respect to score distributions, stability, and the degree of relationship among scoring methods and between pyramidal scoring methods and scores on the conventional test. The effects of memory were also considered. (Modified author abstract) (U)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 782 527 5/10
NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO
CALIF
An Evaluation of Computerized Tests as

An Evaluation of Computerized Tests as Predictors of Job Performance in Three Navy Ratings: I. Development of the Instruments.

3

DESCRIPTIVE NOTE: Final rept. 1 Jul 72-30 Jun 73,
AUG 74 29P Cory,Charles H.;
REPT. NO. NPRDC-TR-75-2
PROJ: NR-150-335, RR042-04
TASK: RR042-04-01

UNCLASSIFIED REPORT

DESCRIPTORS: *Performance(Human), *Aptitude tests, *Computer applications, Mathematical prediction, Naval personnel, Enlisted personne; Test methods, Assessment, Memory(Psychology), Information processing, Motion, Detection, Factor analysis
IDENIFIERS: Movement detection

33

33

The potential usefulness of computerized tests for supplement paper-and-pencil measures for predicting job performance abilities was the objective of a series of studies. This report covers the initial test development and analysis research. Eight computerized tests were constructed to measure five personal attributes identified in previous research as being important for job performance. The experimental battery also contained nine previously developed tests. The battery was administered to 385 enlisted personnel and test results and interrelationships were analyzed in conjunction with operational written test and biographical variables. (Modified author abstract)

3

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD- 781 894

A Word Knowledge Item Pool for Adaptive Ability Measurement.

3

McBride, James R. : Weiss, DESCRIPTIVE NOTE: Research rept., 86P JUN 74 REPT. NO.

CONTRACT: N00014-67-A-0113-0029 PROJ: RR042-04, NR-150-343 RR-74-2 PROJ:

RR042-04-01

UNCLASSIFIED REPORT

3 JESCRIPTORS: *Aptitude tests, *Adaptive systems, *Computer applications, *Vocabulary, Students, Psychological tests, Selection, Factor analysis, DESCRIPTORS:

Words(Language) IDENTIFIERS: Norming studies, Computer aided testing

 $\widehat{\Xi}$ of both the classical test model and the normal ogive A series of four vocabulary norming tests was used to develop a large, homogeneous pool of vocabulary test items for use in computer-administered adaptive items were divided among the four norming tests, and undergraduates. Norming tests were administered by computer or paper and pencil in fixed and random the basis of item analysis results, 369 items were selected as satisfactory for the adaptive testing item pool. An outline was developed for the design orders. Item difficulty and discrimination indices testing research. 575 unique vocabulary knowledge item model were derived on the norming data. On future norming studies. (Modified author administered to separate groups of college

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20MO9

AD- 779 912 5/9
APPLIED PSYCHOLOGICAL SERVICES INC WAYNE PA SCIENCE CENTER

Nonverbal and Culture Fair Performance Prediction Procedures. III. Cross Validation.

3

DESCRIPTIVE NOTE: Rept. no. 1 (Final), Jul 71-Mar Siegel, Arthur I. : Leahy, 48P MAR 74

N00014-71-C-0319 PRGJ: NR-153-334 William Rick ; CONTRACT:

UNCLASSIFIED REPORT

See also AD-770 550. SUPPLEMENTARY NOTE:

*Naval personnel, *Aptitude tests, *Performance(Human), *Jobs, Aptitudes, DESCRIPTORS:

*Culture fair tests, *Nonverbal IDENTIFIERS: Validation

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training-be able to achieve an absolute proficiency criterion of job success. An initial validation concept is based on the conjecture that persons who similarly supported the contention. However, as anticipated, attenuation of predictive power was demonstrated in the 18-month cross validational followup. For the nine-month followup, the concept yielded discriminant functions which provided 74% correct classification. For the 18-month followup. tasks of a job will-given appropriate on-the-job after the sample had 18 months of job experience) demonstrate the ability to learn a sample of the (conducted after the sample had nine months job A cross validation of findings relative to the value of a fair test concept is presented. The 62% correct classification was demonstrated. experience) had provided support for this contention. The cross validation (conducted (Author)

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 778 072

Validation of the Cross-Cultural Aircrew Aptitude Battery on a Vietnamese Pilot Trainee Sample.

Croll, Paul R. : Mullins, DESCRIPTIVE NOTE: Technical rept., Cecil J. :Weeks, Joseph L. ; REPT. NO. AFHRL-TR-73-30 NOV 73 13P

AF-7719 PROJ: AF-7719 TASK: 771913

UNCLASSIFIED REPORT

3 *Cross culture(Sociology), Vietnam, Validation, Pilots, Assessment IDENTIFIERS: Cross Cultural Aircrew Aptitude Battery, CCAAB(Cross Cultural Aircrew Aptitude Battery) *Flight crews, *Aptitude tests, DESCRIPTORS:

3

3 predictor of pilot success for foreign national pilot candidates, and that optimum prediction is obtained re-validate the CCAAB on each nationality for which it is to be used, in order to determine the unique Aircrew Aptitude Battery (CCAAB) with a Vietnamese pilot trainee sample. Results of this nationality-specific. Recommendation is made to when predictor sets and regression weights are study indicate that the CCAAB is an acceptable The study is validation of the Cross-Cultural optimum predictor sets and weights for that nationality. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 777 831

Feasibility of Using Special Measures in the Classification and Assignment of Lower Mental Ability Airmen,

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Wilbourn, James M. ; Guinn, 22P 73 Nancy : NOV

REPT. NO. AFHRL-TR-73-31 PROJ: AF-7719 TASK: 771909

UNCLASSIFIED REPORT

DESCRIPTORS: *Aptitude tests, Assessment, Test methods, Performance(Human), Validation, Feasibility studies, Flight crews, Air Force personnel

IDENTIFIERS: Aptitude levels

33

administered. The number of significant relationships between certain non-verbal tests and final technical school grade varied as a function of mental category and career field. On cross-validation the number of significant relationships between the non-verbal composite and final school grade were reduced to four total group courses and aptitudinal and educational data could make a significant contribution if added to the operational selection and classification battery. (Modified one lower ability group course. When added to the selector aptitude index (AI), the non-verbal tests made a significant and unique contribution to the that the use of non-verbal tests as well as other prediction of technical school success over and beyond the selector AI alone. Results indicate A battery of eleven non-verbal tests were

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author abstract)

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Group. (Modified author abstracts)

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 774 586

Validation of a Battery of Performance Tests for Prediction of Aerospace Ground Equipment

Course Grades.

3

NOV 73 23P MCI CONTRACT: F41609-71-C-0032 PROJ: ILIR-00-11

UNCLASSIFIED REPORT

*Performance(Human), *Aptitude tests, Psychological tests, Test methods, Training, *Air Force personnel, DESCRIPTORS: Validation

DENTIFIERS: Airman Qualifying Examination, Armed Forces Qualitification Test IDENTIFIERS:

3

the other predictors for criterion course grades for groups based upon AFQT percentile rank. The validities of the AFQT, AQE indexes and PAS tests were determined for each resultant group. The determine the increase in validities for the course tests, in general, made more contribution to the grades based upon trouble-shooting and repair problems than did the other predictors. The sample of trainees were separated into upper and lower Electronic AI and to determine the validity of the PAS tests for the course grades of 'low-aptitude' the upper group and superior to them for the lower research program were to determine the validity of PAS tests were approximately equal in validity to Electronics AI in predicting course grades, and, for most course grades, the PAS tests were equal validity to the Selector Index. The PAS PAS tests made a significant contribution to the battery of nine performance tests (Performance grades by combining the PAS scores with the AQE airmen. Analyses of the data indicated that the Assessment System, PAS) was administered to 204 airmen trainees enrolled in an Aerospace Ground the PAS tests for criterion course grades; to Equipment Repairman (GE) course at Chanute Air Force Base, ATC. The objectives of the

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SEARCH CONTROL NO.

DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Comparability Study of Armed Services Vocational Aptitude Battery Scores from

Answer Sheet and Answer Card

Administration.

ALABAMA UNIV BIRMINGHAM

McLaurin, William A. DESCRIPTIVE NOTE: Final rept.,

3

Final rept.. SP Valentine, Lonnie D., Jr.;

16P

74

AND

TR-73-20 MONITOR: AFHRL

3

UNCLASSIFIED REPORT

REPT. NO. AFHRL-TR-73-55 PROJ: AF-7719

PROJ:

Cowan, Douglas K. : DESCRIPTIVE NOTE:

3 DESCRIPTORS: *Aptitude tests, Statistical analysi IDENTIFIERS: *Armed Services Vocational Aptitude Battery

Score comparability from administrations on the two distributions, or correlations among the battery's follow a clearcut pattern. It was recommended that existing ASVAB conversion tables continue in use ability (as measured by the AFQT) and answer form answer forms was investigated. It was found that the answer form change had negligible effect on used was found for two tests (Word Knowledge and mark-sense reader from IBM card size forms which redesigned for processing via a Hewlett-Packard Coding Speed); however, the interaction did not are more compressed than was the Digitek form. tests. Significant interaction between initial inadequate to handle anticipated scoring load. answer sheets. In September 1973, the Digitek scoring facility at Randolph AFB will be (ASVAB) Form 2 was standardized for Digitek Consequently, ASVAB answer forms have been average examinee performance overall score Armed Services Vocational Aptitude Battery

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until completion of a full restandardization study.

(Author)

SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD- 773 961

A Computer Software System for Adaptive Ability Measurement.

3

DeWitt, Louis J. ; Weiss, Research rept., CONTRACT: NO0014-67-A-0113-0029 PROJ: RR042-04, NR-150-343 69 b DESCRIPTIVE NOTE: JAN 74 David J.

UNCLASSIFIED REPORT

DESCRIPTORS: *Psychometrics, *Computer applications, *Aptitude tests, Adaptive systems, Individualized training, Automation, Test equipment, Computer programs, Test methods, Management planning and control

test can be based on one of six different testing strategies and can administer items selected from up to nine different item pools within each strategy. choice responses or free-response numeric responses. A system of computer programs designed to control the administration of adaptive ability tests was developed and used for over 2500 hours of ability messurement. The system is capable of administering any combination of two kinds of tests to a given individual without interruption. Each The system is designed to accept either multiple-(Modified author abstract)

UNCLASSIFIED

SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY AD- 772 626

MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

A Cognitive Intervention for Improving the Estimate of Latent Ability Measured from Analogy Items.

3

Whitely, Susan E. ; Dawis, DESCRIPTIVE NOTE: Technical rept., AUG 73 36P Whitely, Sus CONTRACT: N00014-68-A-0141-0003 36P PROJ: NR-151-323 Rene V. ;

UNCLASSIFIED REPORT

*Performance(Human), *Models, Words(Language), Mathematical prediction, Learning, Test construction(Psychology), Experimental data IDENTIFIERS: *Analogy tests, *Cognitive DESCRIPTORS: *Aptitude tests, intervention, Abilities

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3 5 intervention for analogy tests, designed to fit the Whitely and Dawis explicated an aptitude-ability model of testing from a test-intervention-retest sequence. The model uses two scores, initial ability and gain over a test-related intervention, a weighted combination to reflect true potential (ability). The report contains the text and method for the development of a cognitive aptitude-ability model. (Author)

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

I- 771 677 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Task Difficulty and Task Aptitude Benchmark Scales for the Administrative and General Career Fields.

Fugill, John W. K, DESCRIPTIVE NOTE: Final rept., REPT. NO. AFHRL-TR-73-13 PROJ: AF-7734 OCT 73 17P

773402 PROJ:

UNCLASSIFIED REPORT

ESCRIPTORS: *Bench tests, *Aptitude tests, *Performance(Human), Management, Personnel development, Job analysis, Requirements, Statistical analysis DESCRIPTORS:

as designated by work supervisors, and the corresponding relative task aptitude requirements, as relationship between relative task difficulty values, determined by behavioral scientists. For 3200 tasks be inferred at a high level of confidence, and that relative task aptitude requirements may be inferred determined that relative task difficuity values may not used in the original scaling procedure, it was difficulty values and relative task aptitude requirements for a variety of tasks in the General and Administrative work areas is discussed. It was established that there was a high positive The feasibility of inferring relative task at a moderately high level of confidence. (Modified author abstract)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

)- 770 550 5/9 APPLIED PSYCHOLOGICAL SERVICES INC WAYNE PA SCIENCE AD- 770 550 CENTER

Nonverbal and Culture Fair Performance Procedures. II. Initial Validation.

3

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Siegel, Arthur I. ; Bergman, DESCRIPTIVE NOTE: Annual rept., Brian A. : Lambert, Joseph ; CONTRACT: N00014-71-C-0319 79P PROJ: NR-153-334 SEP 73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-747 997.

DESCRIPTORS: *Naval personnel, *Aptitudes, *Jobs, *Performance(Human), Aptitude tests, Observation, Validation IDENTIFIERS: *Nonverbal tests, *Culture fair

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tests, Marginal personnel

3 measured through work sample performance test methods on the concept that ability to learn a miniature and The initial validation of a nonverbal, culture-fair placed on the job and their level of competence was battery of tests for predicting performance of Navy machinist mates is described. The battery is based machinist mate school training, as measured by the usual Navy written tests. These recruits were nine months later. It was possible to acquire criterion data for 29 of the black and 25 of the journeyman. The battery was administered to 50 black and 49 white recruits who were below the representative aspect of a job can serve as a minimal acceptable score for admission to the predictor of ability to learn the job as a white subjects. (Modified author abstract)

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20MOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

AMERICAN INSTITUTES FOR RESEARCH SILVER SPRING 5/10 AD- 769 073

to Methods for Predicting Job-Ability
Requirements: I. Ability Requirements as
a Function of Changes in the Characteristics an Auditory Signal Identification Task.

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Technical rept., P Wheaton, George R. ; Shaffer, SEP 73 47P wheaton, George R.; SP Ellen J.; Mirabella, Angelo; Fleishman, Edwin DESCRIPTIVE NOTE:

AIR-31300-9/73-TR, AIR-R73-5 N00014-72-C-0382 REPT. NO. CONTRACT:

PROJ: NR-151-347

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*APTITUDE TESTS, EMPLOYMENT), (*AUDITORY ACUITY, *PERFORMANCE(HUMAN)), MEMORY(PSYCHOLOGY), AUDITORY SIGNALS, GEOMETRIC FORMS, IDENTITICATION, SIGNAL-TO-NOISE RATIO, ANALYSIS OF VARIANCE, TEST CONSTRUCTION(PSYCHOLOGY), STUDENTS
IDENTIFIERS: ABILITIES, TASK PERFORMANCE

3 relationship between variations in an auditory signal the characteristics of human tasks and the abilities required for task performance. The goal of the program is to generate principles which can be used to identify ability requirements from knowledge of the characteristics of a task and of variations in of research dealing with the relationships between the conditions of task performance. Such knowledge has important implications for both selection and training of personnel. The study investigated the identification task and consequent changes in the The report describes the first study in a program abilities related to identification performance. (Modified author abstract)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD- 768 993

An Empirical Study of Computer-Administered Two-Stage Ability Testing.

3

Betz, Nancy E. : Weiss, David Research rept., RR-73-4 N00014-67-A-0113-0029 53P DESCRIPTIVE NOTE: OCT 73 REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

PROJ: NR-150-343

DESCRIPTORS: (*APTITUDE TESTS, ADAPTIVE SYSTEMS), (*COMPUTER PROGRAMMING, *PERFORMANCE(HUMAN)), TIME SHARING, TEST CONSTRUCTION(PSYCHOLOGY), MANAGEMENT PLANNING AND CONTROL, STATISTICAL ANALYSIS, RELIABILITY DESCRIPTORS:

DW F IDENTIFIERS: ABILITIES, *COMPUTER AIDED TESTING, STAGE TESTING, LINEAR TESTING, DIFFICULTY LEVELS

3 3

characteristics of the two-stage testing strategy are In an investigation of new approaches to measuring Ç á abilities, a two-stage adaptive test and a conventional peaked test were constructed and administered on a time-shared computer system Comparison of the score distributions yielded students in undergraduate psychology courses. the two tests are discussed for variability. Suggestions for possible ways to improve the distribution, and test-retest stability. offered. (Modified author abstract)

PAGE

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

- 768 328 5/9 5/10 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 768 328

Factors Related to Adaptability to Military Service among 1965 Airman Accessions.

3

Guinn, Nancy ; DESCRIPTIVE NOTE: Technical rept., SEP 73 20P REPT. NO. AFHRL-TR-73-42 PROJ: AF-7719 20 P

771902 FASK:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*AIR FORCE, *APTITUDE TESTS), (*PERSONNEL MANAGEMENT, *TEST CONSTRUCTION(PSYCHOLOGY)), FACTOR ANALYSIS, AGING(PHYSIOLOGY), EDUCATION, PSYCHOLOGICAL TESTS, RELIABILITY, REVIEWS, RECRUITING, MATHEMATICAL PREDICTION

3 DENTIFIERS: *SCREENING PROCEDURE CAUTIONS, AFQT CATEGORIES, AIR FORCE QUALIFYING TESTS DENTIFIERS:

3 largest percentage of undesirable enlistees was noted in high school non-graduate, Category 4, and 17-year-old groups. Using three categories of variables, it was found that it would be possible to eliminate 34 percent of the undesirables, although 76 percent of the individuals falling in this three educational level, and AFQT scores of the 1965 airman accessions and their reenlistment desirability at the completion of their initial tour. The caution should be used in attempting to establish a screening procedure to identify undersirable enlistees since a significant number of potentially category group actually proved to be successful in their military career. It was emphasized that qualitied personnel might be excluded at the same The relationships were investigated between age, time. (Modified author abstract)

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ARLINGTON VA AD- 768 168

Effectiveness of Selection and Classification Testing.

DESCRIPTIVE NOTE: Research rept.,

Maier, Milton H. ; Fuchs, 58P Edmund F. ; SEP 73

PROJ: RDT/E-2-0-062106-A-722 REPT. NO. ARI-RR-1179

UNCLASSIFIED REPORT

5 IDENTIFIERS: ARMY CLASSIFICATION BATTERY, ARMED FORCES QUALIFICATION TEST, PERSONNEL SELECTION, QUALIFICATIONS, VALIDATION, ABILITIES, PERSONNEL SCREENING TESTS (*PERFORMANCE(HUMAN), EFFECTIVENESS), PSYCHOLOGICAL TESTS, ANALYSIS, CLASSIFICATION, PREDICTIONS, RELIABILITY, SELECTION, MILITARY PSYCHOLOGY, PERFORMANCE(HUMAN), ACHIEVEMENT TESTS (* APTITUDE TESTS, * ARMY PERSONNEL) DESCRIPTORS:

and classification testing programs in relation to job training success and the suitability of the tests for subgroups of the manbower available to the Army. The various testing programs in the Army's enlisted personnel system are described; the present publication addresses the value of selection performance is more satisfactory than job ratings for of measures of performance in job training programs and ratings of job performance reveals that training relationships between testing program, training content and method, and utilization on the job are probed; and the methodology is explained by which the validity of the tests is established. Analysis whites. A general criticism of tests, particularly Army's personnel systems despite changing concepts select, classify, and assign to training and jobs large numbers of men who enter the service. The Army personnel managers have a continuing need to relation between test scores and other indexes of predict performance in training programs and the military tests, has arisen in recent years. Analysis supports the usefulness of tests in the success are examined separately for Negroes and evaluating test effectiveness. How well tests n the Army's mission,

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX 767 578

Validity of Armed Services Vocational Battery, Form 1, to Predict echnical School Success, Apt i tude

Vitola, Bart M. : Mullins Cecil J. ;Croll, Paul R. ; REPT. NO. AFHRL-TR-73-7 PROJ: AF-7719 JUL 73

771910 PROJ:

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE PERSONNEL, *APTITUDE TESTS), (*PERFORMANCE(HUMAN), RELIABILITY), TEST CONSTRUCTION (PSYCHOLOGY), STANDARDIZATION, CORRELATION TECHNIQUES, TECHNICIANS, OPERATORS(PERSONNEL) (LABENTIFIERS: AIRMAN QUALIFYING EXAMINATION, ARMED SERVICES VOCATIONAL APTITUDE BATTERY

3 instrument for use in the military high school testing program and may be used satsifactorily, as is AQE, to assign enlistees to technical training. Armed Services Vocational Aptitude Battery (ASVAB), Form 1, and the Airman Qualifying Examination-66 (AQE), were determined for final grades in 46 airman training courses. Comparisons were made between AQE and ASVAB in terms of their ability to predict technical school success. The Validities of the four aptitude indexes of the data demonstrate that ASVAB is an effective (Modified author abstract)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY 5/9

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF U. S. Army Selection Center Evaluation

Study.

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DESCRIPTIVE NOTE: Final technical rept. 14 Jul 72-29 Jun 73,

3

SDC-TM-5138/000/00, SDC-73-9 Kent, Robert L. DAHC19-72-C-0012 186P REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

3 Ξ DESCRIPTORS: (*ARMY PERSONNEL, *RECRUITING), (*APTITUDE TESTS, JOB ANALYSIS), SELECTION, PERFORMANCE(HUMAN), ATTITUDES(PSYCHOLOGY), QUESTIONNAIRES IDENTIFIERS: COMPARISON, RECOMMENDATIONS, *JOB SATISFACTION

improved orientation and placement of volunteers for satisfaction, and job performance of enlistees. This document reports the results of the evaluation of the impact of the selection center process, as compared to the impact result in improved job satisfaction, most enlistees November 1972 on an experimental basis to evaluate were: the achievement of improved attitudes at the selection center was offset by other factors after Station (AFEES) process, on attitudes, job satisfaction, and job performance of enlistees in Advanced Individual Training (AIT) and at enlistment, the selection center provess did not provisional) was in operation from February to their first unit of assignment. Major findings U.S. Army service. Its primary objectives of the Armed Forces Entrance Examination were to improve attitudes, job he U.S. Army selection center

had positive attitudes toward their jobs but had jobs involvement, selection center enlistees were rated at

which did not provide interest, challenge, or

received prior to enlistment to be more accurate and

performance characteristics but not significantly

least as high or higher than AFEES enlistees on higher, and enlistees who believed information comprehensive had more positive attitudes, greater

iob satisfaction, and better performance.

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY **SOMOS**

SEARCH CONTROL NO.

DOC REPORT BIBLIDGRAPHY

UNCLASSIFIED

EDUCATIONAL TESTING SERVICE PRINCETON N J Toward the Establishment of Noncognitive

AD- 765 843

Factors through Literature Search and

Interpretation.

AD- 765 732

Decisional Differences among Individuals: Signal Detection Theory Approach

3

no. 16,

3

French, John W.

DESCRIPTIVE NOTE: Technical rept.,

N00014-71-C-0117 PR-73-29, TR-1 48P

PROJ: NR-150-329

REPT. NO. J J CONTRACT

NAMRL-1185 Jack B. ; PROJ:

UNCLASSIFIED REPORT

3 3 (*PICOTS, SELECTION), (*NAVAL AVIATION, *PSYCHOLOGICAL TESTS), REVIEWS, PROBABILITY, MATHEMATICAL PREDICTION, PERFORMANCE (HUMAN), AUDITORY SIGNALS, DETECTION, ANALYSIS OF VARIANCE, SIGNAL-TO-NOISE RATIO, STATISTICAL ANALYSIS, PERSONALITY (IDENTIFIERS: RISK TAKING, SIGNAL DETECTION THEORY, (*DECISION MAKING, *APTITUDE TESTS), INDIVIDUAL DIFFERENCES DESCRIPTORS:

literature review, a number of serious weaknesses and difficulties in existing R-T measures were signal detection theory framework to a psychophysical task of changing signal probabilities. The results in general were favorable to this alternative of a brief study employing proposed signal detection theory measure. On the basis of the R-T differences among individuals was investigated in an auditory detection task of limited length. The validity of this approach for determining decisional The applicability of current theory and measures of risk-taking (R-T) to the understanding and selection of military aviators was investigated. The project consisted of three interrelated of the literature in R-T, (2) the development of an alternate measure emphasizing the decisional was made to determine an alternative measure which enumerated. Because of these problems, an attempt situation. This involved the application of the aspects of R-T, and (3) preliminary findings stressed the decisional aspects of the R-T

UNCLASSIFIED

NAVAL AEROSPACE MEDICAL RESEARCH LAB PENSACOLA FLA

DESCRIPTIVE NOTE: Medical research progress rept. JUN 73 28P Long, Gerald M.; Shelnutt,

MF51.524 MF51.524.004 TASK:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PERSONALITY, FACTOR ANALYSIS), (*PERFORMANCE(HUMAN), APTITUDE TESTS), SCIENTIFIC RESEARCH, STATE-OF-THE-ART REVIEWS, CLASSIFICATION, MEASUREMENT, THEORY, MATHEMATICAL PREDICTION

3 established factors. A literature review takes the form of a discussion of the various analyses in which 28 factors seem to have appeared and the extent to The report is on one aspect of a study to conceptualize and develop a theory and structure of human abilities and temperment. It is directed which the listed subscales measure them. (Modified instruments that can serve as markers for well toward the identification of tests and other Buthor abstract) (Author)

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differences along a statistical decision dimension.

approach to measuring meaningful individual

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 764 866 5/9 NAVAL AEROSPACE MEDICAL RESEARCH LAB PENSACOLA FLA

The Prediction of Pilot Performance in the F-4 Aircraft.

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JUL 73 12P Shannon,Richard H.;Wang.
Wayne L.;
REPT. NO. NAMRL-1186
PROJ: MF51.524
TASK: MF51.524.002

UNCLASSIFIED REPORT

DESCRIPTORS: (*PILOTS, *APTITUDE TESTS),
(*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION), (*NAVAL
AVIATION, *PERSONNEL MANAGEMENT), STANDARDS, SELECTION,
JET FIGHTERS, NAVAL TRAINING, STATISTICAL DATA,
QUESTIONNAIRES, CORRELATION TECHNIQUES
(U)
IDENTIFIERS: F-4 AIRCRAFT, CRITERIA

In previous investigations, attempts were made to isolate the most critical skills and procedures within each stage of replacement air group (RAG) training in the F-4 aircraft. For each of the stages analyzed, a small set of items were selected on the basis that they could discriminate among replacement pilots according to their final RAG grade. On the basis of these isolated skills, two fleet evaluation questionnaires were developed to be used by operational F-4 squadron commanders. In addition to ratings on these two rating forms, squadron commanders were asked to report critical incidents. These included such occurrences as accidents, incidents, and wings-pulled. Data obtained from these two forms were used as the criterion measures in the investigation. Selected test scores and flight grades from undergraduate pilot training were used as botential predictors. These were relationships were obtained among the method used in developing the rating form to be a feasible one. Implications are discussed in terms of potential use for actual assignment of aviators to RAG training in the F-4 aircraft. (Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9
AD- 763 347
ADAMS CONTROLLED STATES

AD- 763 347 5/10 NAVY EXPERIMENTAL DIVING UNIT WASHINGTON D C

Diver First Class Reading Ability

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DESCRIPTIVE NOTE: Final rept.,

JAN 73 12P Bain, E. C., III; Berghage
T. E.; NEDU-RR-3-73

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PERSONNEL, *APTITUDE TESTS), (*READING, PERFORMANCE(HUMAN)), DIVING, VOCABULARY, PERCEPTION(PSYCHOLOGY), CORRELATION TECHNIQUES IDENTIFIERS: READING ABILITY, DIVERS

33

The Nelson-Denny reading test was administered to thirty Navy first class diver candidates to evaluate the group's vocabulary, reading comprehension, reading rate and over-all reading ability. Reading rate and comprehension were at the twelfth grade level, while vocabulary ability was equal to the college freshman norm. (Modified author abstract)

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38

PAGE

SEARCH CONTROL NO.

DDC REPORT BIBLIOGRAPHY

- 762 692 5/10 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

Difficulty, Association Strength and Mental

Aptitude on Learning by Listening, Effects of Speech Rate, Selection

21P

SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

UNCLASSIFIED

- 758 874 5/10 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA AD- 758 874

3 Aptitude Level and Performance on Intramodal and Intermodal Form Discrimination Tasks.

Technical rept., DESCRIPTIVE NOTE:

3

Sticht, Thomas G. ; Glasnapp,

Kress, Gary : MAR 73 30P Kre REPT. NO. HUMRRO-TR-73-7 CONTRACT: DAHC19-73-C-0004 PROJ: 04-2-0-062107-4-745

UNCLASSIFIED REPORT

OPTIMIZATION, PERFORMANCE(HUMAN), PATTERN RECOGNITION, CLASSIFICATION, STATISTICAL IDENTIFIERS: APTITUDES, PERSONNEL, HIGH APTITUDE PERSONNEL, INFORMATION PROCESSING(PSYCHOLOGY), *VISUAL DISCRIMINATION DESCRIPTORS: (*ARMY PERSONNEL, *APTITUDE TESTS),

3 The report presents the findings of research that compared high and low aptitude subjects on two form discrimination tasks that required both intramodal and intermodal functioning. In the first experiment, 20 high and 20 low aptitude Army low aptitude men, introduced a delay period between the presentation of the standard and comparison discrimination of nonsense forms, using vision and touch. The second experiment, with 30 high and 30 stimuli. Analysis showed the relation of high aptitude to higher-order processing or learning trainees were required to make a simultaneous strategies. (Author Modified Abstract)

Availability: Pub. in Jnl. of Communication, v22 n2 p174-188 Jun 72. Douglas R.; REPT. NO. HumRRO professional paper-1-73 CONTRACT: DAHC19-73-C-0004 PROJ: DA-2-Q-062107-A-745 UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, PERFORMANCE(HUMAN)), (*AUDITORY PERCEPTION, ANALYSIS OF VARIANCE), (*PERFORMANCE(HUMAN), STATISTICAL ANALYSIS), SPEECH, VELOCITY, CLASSIFICATION, APTITUDE TESTS, ARMY PERSONNEL (U) IDENTIFIERS: APTITUDES, PERSONNEL, HIGH APTITUDE (U) PERSONNEL, DIFFICULTY LEVELS

3 aged 18-25, listened to tape-recorded passages presented at different rates of speech. Experiment 1 studied the effects of speech rate upon immediate retention, by a total of 204 high and low aptitude (AFQT) men, of material having readability of grade levels 6.0, 8.5, and 14.5 Experiment 2 examines In two factorial experiments, adult male subjects, interactions of speech rate, aptitude, and the association strength of nouns in sentences on immediate retention, using a total of 138 men. (Modified author abstract)

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DOC REPORT BIBLIDGRAPHY	AD- 757 788 5/10 MINNESOTA LINIV MINNEADOLIS DEPT OF DEVENDINGS
PORT	88
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9	75
	AO

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY Ability Measurement: Conventional or

DESCRIPTIVE NOTE: Research rept.,

Adapt i ve.

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, *REVIEWS), THEORY, (U) RELIABILITY, AUTOMATION (U) IDENTIFIERS: ABILITIES (U)

Research to date on adaptive (sequential, branched, individualized, tailored, programmed, response-contingent) ability testing is reviewed and summarized, following a brief review of problems inherent in conventional individual and group approaches to ability measurement. Research reviewed includes empirical, simulation and theoretical studies of adaptive testing strategics. A number of new psychometric problems raised by adaptive testing are discussed, as is the criterion problem in evaluating the utility of adaptive testing in a paper and pencil mode, or using special testing and problems of implementing adaptive testing machines are reviewed; the advantages of computercontrolled adaptive test administration are described. (Author Modified Abstract)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9
AD- 756 193 5/10

EDUCATIONAL TESTING SERVICE PRINCETON N J

Investigation of a Creativity Dimension.

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DESCRIPTIVE NOTE: Doctoral thesis, FEB 73 185P Murphy, Richard T.; REPT. NO. ETS-RB-73-12 CONTRACT: NOO014-67-A-0151-0006 PROJ: NR-150-302

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Princeton Univ., N. J. Dept. of Psychology. Grant NSF-GB-8023X.

DESCRIPTORS: (*APTITUDE TESTS, CHILDREN), (*CHILDREN, CREATIVITY), STUDENTS, PSYCHOLOGICAL TESTS, TEST CONSTRUCTION(PSYCHOLOGY), REVIEWS, CORRELATION TECHNIQUES, EXPERIMENTAL DATA, THESES IDENTIFIERS: HIGH SCHOOL STUDENTS, (U) INTELLIGENCE(HUMAN) (U)

The work in this thesis is a development and extension of the work begun originally by Drs. Nathan Kogan and Karl Joreskog. Kogan's work in creativity testing and its relationship to intelligence and achievement is the basis for the Content of the thesis. Joreskog's work in the development of factor analytic techniques is the basis for its methodology. The Wallach and Kogan tests of creativity are used in studying the existence of a creativity dimension distinct from intelligence. Evidence studies and by an original research study with high school students.

3

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER 5/10 AD- 755 728

Effects of Anxiety Type and Item Difficulty Sequencing on Mathematics Aptitude Test Per formance.

3

DESCRIPTIVE NOTE: Technical memo., App 72 38P Towle, Nelson J. ; Merrill, Paul F

CONTRACT: N00014-68-A-0494

PROJ: NR-154-280

UNCLASSIFIED REPORT

(*APTITUDE TESTS, *ANXIETY), MATHEMATICS, ACHIEVEMENT TESTS DESCRIPTORS:

3 performance and on post-state anxiety were investigated using a timed mathematics aptitude test. to-hand, or hard-to-easy item difficulty sequencing group. The hard-to-easy sequence group performance was significantly lower than either the random or The Ss were randomly assigned to a random, easystatistically different, (1) the mathematics aptitude test scores of four achievement anxiety Test, and (2) levels of state anxiety provoked by the three difficulty sequences were in the types grouped using the Achievement Anxiety easy-to-hard sequence groups. Though not Effects of item difficulty sequencing on predicted direction. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

~ 755 169 5/9 5/10 NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO AD- 755 169 CALIF

Interest Blank for Predicting Naval Academy Disenrollment and Military Aptitude. The Validation of the Strong Vocational

3

DESCRIPTIVE NOTE: Final rept., see 73 27P Abrahams, Norman M. ; Neumann, REPT. NO. STB-73-3 PROJ: NPTRL-P43-07X.C4 STB-73-3 Idell ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PERSONNEL, *APTITUDE TESTS), SELECTION, PREDICTIONS, ATTRITION, MOTIVATION, EFFECTIVENESS DESCRIPTORS:

IDENTIFIERS: STRONG VOCATIONAL INTEREST BLANK

33

have been administered since 1967 to applicants and/ or entering Naval Academy midshipmen and analyzed to determine their value in predicting disenrollment and military aptitude. Three separate interest scales were empirically developed to predict motivational disenrollment, academic disenrollment, provided significant and useful cross-validated increments beyond the levels of predictive accuracy attained with the present composite. (Author) and military aptitude. The scales were evaluated for both their individual predictive effectiveness and, where possible, for their contribution to being commissioned. The present research sought to approximately one-third of the officer candidates yielded significant and useful relationships with existing selection procedures. All three scales examine the usefulness of the Strong Vocational Interest Blank (SVIB) for improving the selection of Naval Academy midshipmen. SVIBs samples. The empirically-developed scales also admitted to the Naval Academy disenroll before their respective criteria in cross-validation Despite rigorous selection procedures,

3

Acquisition of Pursuit Tracking Skill under Extended Training as a Joint Function of Sex and Initial Ability,

MAR 70 15P Noble,Clyde E. CONTRACT: AF-AFOSR-1099-67, NSF-GU-2590 TR-73-0007 MONITOR: AFOSR PROJ: AF-9778

Availability: Pub. in Jnl. of Experimental Psychology, v86 n3 p360-373 Dec 70. UNCLASSIFIED REPORT

33 FESCRIPTORS: (*TRACKING, *APTITUDE TESTS), (*PERFORMANCE(HUMAN), ANALYSIS OF VARIANCE), MALES, FEMALES, TRAINING, STATISTICAL DATA, LEARNING, CURVE FITTING, MATHEMATICAL PREDICTION, STUDENTS CAUCASIANS DENTIFIERS: DESCRIPTORS:

divergence and later convergence; initial ability, acquisition rate, and final level correlated and were found within the range of 17-41 yr; ability differences between men and women in tracking skill, one hundred 20-sec. trials spaced by 10-sec. rests. Results obtained included mathematical forms of the percentage time-on-target curves vs. aptitude; exponential and predictable curves at five ability levels; significant trend differences with early (256 men, 244 women) were trained on the United States Air Force rotary pursuit apparatus for interactions with practice, and differentiation between Ss of low and high aptitude. Five hundred college Ss of Caucasian ancestry (Author)

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SOMO2 SEARCH CONTROL NO. AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX 5/10 DDC REPORT BIBLIOGRAPHY 5/8 AD- 754 849

Development and Standardization of the Air

Force Officer Qualifying Test Form L,

w

3

Miller, Robert MAY 72 14P REPT. NO. AFHRL-TR-72-47 PROJ: AF-7719 771912

3

UNCLASSIFIED REPORT

CONSTRUCTION(PSYCHOLOGY), ("ACFFICES PERSONNEL,
*APTITUDE TESTS), CLASSIFICATION, STANDARDIZATION, DATA
PROCESSING, RELIABILITY, STATISTICAL PROCESSES
IDENTIFIERS: AIR FORCE OFFICER QUALIFYING TEST, TALENT
PROJECT, DIFFICULTY LEVELS DESCRIPTORS: (*AIR FORCE TRAINING, *TEST

Test (AFOQT) was developed for implementation in fiscal Year 1972. The new form is designated form L. It resembles other recent forms in type of content, organization, and norming strategy. Like other forms, it yields pilot, navigator-technical, officer quality, verbal, and quantitative composite scores for operational use. and by a slight shortening which does not reduce the new validation data for flying training criteria are forms by the introduction of Digitek answer sheets In accordance with the normal replacement cycle, new form of the Air Force Officer Qualifying total amount of elicited scorable behavior. Some TALENT battery in a way which permits relating AFOQT scores to Air Force Academy candidates and to 12th grade males in the Project TALENT national survey. Form L differs from earlier presented.

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20MOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

)- 754 848 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 754 848

Task Difficulty and Task Aptitude Benchmark Scales for the Mechanical and Electronics Career Fields,

3

APR 72 41P Fugill, John W. K.; REPT. NO. AFHRL-TR-72-40 PROJ: AF-7734 TASK: 773402

UNCLASSIFIED REPORT

33 (* AIR FORCE PERSONNEL, *APTITUDE TESTS), (*ELECTRONIC TECHNICIANS, *TEST CONSTRUCTION(PSYCHOLOGY)), (*MECHANICAL ENGINEERING, *JOB ANALYSIS), FEASIBILITY STUDIES, STATISTICAL PROCESSES, MILITARY REQUIREMENTS, REVIEWS IDENTIFIERS: CAREER LADDERS, TASK DIFFICULTY DESCRIPTORS:

constructing benchmark scales on the dimensions of tasks in Air Force mechanical and electronics job areas. It was determined that small numbers of work supervisors and behavioral scientists can achieve high interrater agreement on the dimensions of task difficulty and task aptitude, respectively. Assuming consistently high correlations between work supervisors' judgments of difficulty and behavioral scientists aludgments of difficulty and task aptitude, respectively. Assuming consistently high correlations between work supervisors' judgments of difficulty and behavioral scientists, judgments of aptitude, task aptitude requirements may be inferred directly from task difficulty values as designated by work An exploratory study examined the feasibility of supervisors in the field.

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SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

1- 754 846 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 754 846

Suitability of Using Common Selection Test Standards for Negro and White Airmen,

3

Shore, C. Wayne : Marion, 179 MAY 72

Rodger ; REPT. NO. AFHRL-TR-72-53 PROJ: AF-7719 TASK: 771909

UNCLASSIFIED REPORT

3 3 DESCRIPTORS: (*AIR FORCE PERSONNEL, *APTITUDE TESTS), (*PERFORMANCE(HUMAN), ANALYSIS OF VARIANCE), SELECTION, STATISTICAL PROCESSES, REGRESSION ANALYSIS, PERSONNEL MANAGEMENT, STANDARDS, MATHEMATICAL PREDICTION IDENTIFIERS: NEGROES, AIRMAN QUALIFYING EXAMINATION, CAUCASIANS, ETHNIC GROUPS

3 underpredicted by the selection test, where there were racial differences in the regression lines, and analyses. For both racial groups, the relationship between the Air Force selection test (Airman in instances of differences where criterion scores were overpredicted by the common regression lines. Qualifying Examination) as the predictor and a measure of job knowledge (Specialty Knowledge Test) as the criterion was compared for airmen belonging to one of 16 promotion groups. Results The effectiveness and equity of applying uniform selection standards to both black and white Air Force enlistees was investigated by regression are reported where criterion scores were

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

3 Development and Evaluation of a New ACB and Aptitude Area System.

ARMY BEHAVIOR AND SYSTEMS RESEARCH LAB ATTINGTON VA

AD- 751 761

Maier, Milton H. ; Fuchs, DESCRIPTIVE NOTE: Technical research note, 59P SEP 72

REPT. NO. BESRL-TRN-239 PROJ: RDT/E-2-Q-062106-A-722 Edmund F. :

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*ARMY PERSONNEL, CLASSIFICATION), (*APTITUDE TESTS, *TEST CONSTRUCTION(PSYCHOLOGY)), SELECTION, PERSONNEL MANAGEMENT, PERFORMANCE(HUMAN)

3 aptitude area system were developed which result in an improved system of classification for training and jobs. The publication deals with research conducted to evaluate a large number of tests as predictors of success in the different groups of Military Occupational Specialties (MOS) and select, classify, and assign to training and jobs large numbers of men who enter the service. Since the Army Classification Battery (ACB) is an integral part of the assignment process, accuracy of scores has a significant influence on the appropriateness of assignment. A new ACB and Army personnel managers have a continuing need to to select tests for aptitude area composites.

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD- 751 030

A Model for Psychometrically Distinguishing Aptitude from Ability.

3

whitely, Susan E. DESCRIPTIVE NOTE: Technical rept., 72 Rene V. ;

REPT. NO. 3007 CONTRACT: N00014-68-A-0141-0003 PROJ: NR-151-323 UNCLASSIFIED REPORT

33 DESCRIPTORS: (*APTITUDE TESTS, CULTURE), (*ACHIEVEMENT TESTS, LEARNING), ACCURACY, ANALYSIS OF VARIANCE IDENTIFIERS: *ABILITIES

3 measures reflect a complex interaction of environment with genetic potential. This leads to a basic measurement problem since persons with the same measured ability may vary widely in potential due to non-equivalent learning opportunities. The purpose of the promise in psychometrically distinguishing ability (current status) from aptitude (potential). Data on a simple ability are analyzed according to the model to illustrate how some of the practical problems may be solved. It is now widely agreed that current ability (Author)

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY

Test-Free Person Measurement with the Rasch Simple Logistic Model.

3

Technical rept., P Tinsley, Howard E. A. ; 21P DESCRIPTIVE NOTE: Dawis, Rene V. ;

REPT. NO. 3006 CONTRACT: NO0014-68-A-0141-0003 PROJ: NR-151-323

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, ACCURACY), (*INTELLIGENCE TESTS, ACCURACY), MATHEMATICAL MODELS, MEASUREMENT, ANALYSIS OF VARIANCE (U)

The research investigated the use of the Rasch simple logistic model in obtaining test-free ability estimates. Tests employing word, picture, symbol and number analogies were administered to college and the discussion of an appropriate research design for the investigation of this question. (Author) high school students. The results show that the Rasch model does not offer an improvement over the of the research design. Shortcomings in the research design as well as in that used by Wright use of percentile ranks in estimating individual ability. These results, however, are an artifact (1968), are discussed. The paper concludes with

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

APPLIED PSYCHOLOGICAL SERVICES INC WAYNE PA SCIENCE AD- 747 997 CENTER

Prediction Procedures. I. Background, Test Development, and Initial Results. Nonverbal and Culture Fair Performance

3

Annual rept. Jul 71-Jun 72. P. Siegel, Arthur I. ;Bergman, 88P DESCRIPTIVE NOTE:

Brain A .: PROJ: NR-153-334 CONTRACT:

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, *NAVAL PERSONNEL), CULTURE, FACTOR ANALYSIS, PREDICTIONS

program into the development of unique measures for assessing the potential of 'low aptitude' personnel for certain Navy rates. The logic is based on the conjecture that recruits who can learn a sample of learning test results and the usual Navy predictors given, and the relationship of the derived cultural deprivation scores both to the usual Navy classification tests and the job learning tests is the job requisites in a mini on-the-job training situation will demonstrate the same ability on the described and the correlations among the mini job questionnaire related to cultural deprivation are are given. The results of a factor analysis of a The logic and initial results are described of a recruit's low score on the usual classification job. his is held to apply regardless of the tests. The initial and criterion tests are

3

given. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

CIVIL AEROMEDICAL INST OKLAHOMA CITY OKLA AD- 746 058

Screening of Air Traffic Controller A Proposed New Test for Aptitude Applicants,

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Cobb, Bart B. : Mathews, John 72-18 30 P FAA-AM 72 MAY MONITOR:

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*AIR TRAFFIC CONTROLLERS, *APTITUDE TESTS), SELECTION, TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY IDENTIFIERS: PERSONNEL SCREENING TESTS The study concerns the development and experimental validation of a novel aptitude test, refined to as birectional Headings (or DHT), for the selection of Air Traffic Control Specialist (ATCS) trainess. The test requires the subject to rapidly interpret letters, symbols, and degrees in order to determine: directional headings (Part II), and opposites of headings ward it is traction (Part III). Reliability of the instrument, as determined by corelating the scores based on even-numbered items versus scores based on odd-numbered items, was .93. (Author) 3

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

1- 738-985 5/10 ARMY BEHAVIOR AND SYSTEMS RESEARCH LAB ARLINGTON VA AD- 738 985

Effects of General Ability, Education, and Racial Group on Aptitude Test Performance.

3

DESCRIPTIVE NOTE: Technical research note, MAY 71 60P Maier, Milton H.; REPT. NO. BESRL-TRN-228 PROJ: DA-2-Q-062106-A-722

2-0-062106-A-72200 PROJ:

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, PERFORMANCE(HUMAN)), (*ARMY PERSONNEL, APTITUDE TESTS), SELECTION, EDUCATION, CULTURE, ANALYSIS OF VARIANCE (IDENTIFIERS: ABILITIES, ETHNIC GROUPS (

An examination was made of the relationship among the Army Classification Battery tests in various subgroups of the Army enlisted input consisting of men of different levels of mental ability, different educational levels, and Negroes and Whites for possible differences for variant subgroups. (Author)

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20M09 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

CIVIL AEROMEDICAL INST OKLAHOMA CITY OKL:

The Relationship between Chronological Age and Aptitude Test Measures of Advanced-Level Air Traffic Control Trainees.

 $\widehat{\Xi}$

Rept. for Nov 68-Mar 70, P Cobb, Bart B. ; Lay, Carolyn D. :Bourdet.Nancy M. : PROJ: FAA-AM-C-69-PSY-5, FAA-AM-C-71-PSY-23 71-36 37P DESCRIPTIVE NOTE: MONITOR: FAA-AM JUL 71

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*AIR TRAFFIC CONTROLLERS, *APTITUDE TESTS), (*AGING(PHYSIOLOGY), AIR TRAFFIC CONTROLLERS), CORRELATION TECHNIQUES, TRAINING, PERFORMANCE(HUMAN), SELECTION

The study examined the interrelationships of age, aptitude measures, and training performance scores for 710 men. They ranged in age from 21 to 52 years, but less than 12 per cent were over 40. Most of the subjects were former military controllers who possessed sufficient prior ATC experience to be selected for training with an appointed to trainee status with higher-than-normal subjects over age 34 were significantly lower than those obtained for the younger trainees, and their pay grades. Age correlated negatively with 21 of the 22 aptitude measures and with training course attrition rate for the training course was three exemption from a qualifying aptitude index, and results indicated that greater effectiveness in screening such applicants could be attained if eligibility standards were modified to include grades. On most tests, performance means for times that of their younger classmates. The consideration of both age and aptitudes.

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SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

AD- 731 040 5/9 5/10
NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO CALIF

Comparative Cluster Analysis of Patterns of Vocational Interest.

3

Wolfe, John H. Technical bulletin, OCT 71 22P REPT. NO. STB-72-3 DESCRIPTIVE NOTE:

UNCLASSIFIED REPORT

3 3 JESCRIPTORS: (*APTITUDE TESTS, STATISTICAL ANALYSIS), CORRELATION TECHNIQUES, NAVAL PERSONNEL, PERSONNEL CLUSTER ANALYSIS, *VOCATIONAL DESCRIPTORS: MANAGEMENT

IDENTIFIERS: INTERESTS

Published data on the Strong Vocational Interest Blank profiles of 113 occupational groups are analyzed by three different clustering procedures: Hierarchical grouping of standard scores, Hierarchical grouping of principal axis factor scores, and NORMIX analysis assuming equal covariance matrices for each group. It is shown that the normix solution differs from the other solutions in a psychologically meaningful way. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 725 057 5/9 5/10 15/5
AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Logistic Quantal Response Model for Estimating the Probability of Graduate Success.

DESCRIPTIVE NOTE: Master's thesis, JUN 71 86P Pickens, Thomas A. ; REPT. NO. GSA/SM/71-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, LOGISTICS),
(*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION), MILITARY
ENGINEERING, AIR FORCE RESEARCH, MATHEMATICAL MODELS,
STATISTICAL PROCESSES, PROBABILITY, CORRELATION
TECHNIQUES, THESES

The primary method for estimating the correlation between GRE aptitude test scores and the probability of graduate success involves calculation of the sample correlation coefficient. Since this approach is questioned for prediction or policy formulation, the logistic quantal response model is suggested as a means for estimating the functional relationship between the probability of achieving the graduate degree and the GRE aptitude test scores. Data from the Air Force Institute of Technology graduate systems analysis, graduate aeronautical-mechanical engineering, and graduate logistics management programs were used as the basis for estimating the probability of achieving the graduate degree and a nominal 95% confidence limit (u

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 722 676 5/10
CALIFORNIA UNIV SANTA BARBARA
A Psychoacoustic Investigation of

Foreignness.

DESCRIPTIVE NOTE: Master's thesis, DEC 70 56P Alford, Bronwyn Lind

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DEC 70 56P Alford, Bronwyn Lindsay; CONTRACT: N00014-69-A-0200-8008 PROJ: NR-049-283

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOACOUSTICS, LANGUAGE), (*APTITUDE TESTS, *LANGUAGE), FEASIBILITY STUDIES, AUDITORY PERCEPTION, THESES, CHINESE LANGUAGE (U) IDENTIFIERS: MANDARIN LANGUAGE, VIETNAMESE LANGUAGE (U)

A study was conducted to investigate and measure the foreignness of ten languages. Forty-five listeners judged the relative foreignness of 2250 paired utterances, and ordinal scales were made from their judgments. The purpose of the investigation was to determine the feasibility of the development of an auditory foreign language aptitude test for specific language aptitudes (especially for conversational foreign language learning). It was found that listeners indeed made very definite and consistent foreignness judgments. The tone languages, Vietnamese and Mandarin, were consistently judged to be the most foreign of the test languages. An examination of related studies turned up a general trend suggesting that auditory foreign aptitude tests and subtests are more accurate predictors of success than written 'pencil and paper'

 $\widehat{\Xi}$

tests. (Author)

SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

5/9 5/10 AND TRAINING RESEARCH LAB SAN DIEGO NAVAL PERSONNEL

3 Reliability and Predictive Validity of the Navy Vocational Interest Inventory.

DESCRIPTIVE NOTE: Final rept., FEB 71 26P Lau, Alan W. ; Abrahams, REPT. NO. SRR-71-16

UNCLASSIFIED REPORT

3 3 DESCRIPTORS: (*APTITUDE TESTS, RELIABILITY), (*NAVAL PERSONNEL, APTITUDE TESTS), PREDICTIONS, ATTITUDES(PSYCHOLOGY), JOB ANALYSIS, ATTRITION IDENTIFIERS: *VOCATIONAL INTEREST INVENTORIES, VOCATIONAL INTEREST INVENTORIES,

a promising classification instrument, the Navy Vocational Interest Inventory (NVII). The study is an investigation of the reliability and validity of the inventory for a group of men retested two years after leaving the Navy. By searching compared to scores earned six years earlier. NVII scales were also related to present civilian occupation and to self-reports of job performance and satisfaction. The relationship between reason for leaving and scale scores was also examined. NVII enlisted Navy personnel records in 1970, home addresses for 334 of the 754 non-reenlistees who took leaving and scale scores was also examined. NVII scores tend to be stable whether based on responses The report is one of a series designed to evaluate has acceptable predictive validity. Moderate relationships between NVII scores and reports of inventories were received from 174 men (52 per from reenlistees or non-reenlistees. The NVII cent). NVII retest scores of these men were the NVII in 1964 were located. Completed

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

CENTER FOR NAVAL ANALYSES ARLINGTON VA AD- 720 359

Measured Mental Ability, Service School Achievement and Performance, Sullivan, John A. :

3

UNCLASSIFIED REPORT

CNA-Professional Paper-42

REPT. NO.

3 3 DESCRIPTORS: (*APTITUDE TESTS, EFFECTIVENESS),
(*ACHIEVEMENT TESTS, EFFECTIVENESS),
(*PERFORMANCE(HUMAN), EFFECTIVENESS), SELECTION,
PREDICTIONS, CORRELATION TECHNIQUES, MILITARY PERSONNEL,
PERFORMANCE(HUMAN) IDENTIFIERS: *ARMED FORCES QUALIFICATION TEST, PERSONNEL SCREENING TESTS

indicate a higher productivity of individuals to the to screen draftees and enlistment applicants. This procedure assumes that higher scores on the AFQT Armed Forces. The paper examines some of the the Armed Forces Qualification Test (AFQT) Since World War II the Services have used evidence for this assumption. (Author)

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civilian job satisfaction and performance were found.

Of particular interest was the finding that low scores were associated with separation from the

Navy because of dissatisfaction with rating.

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20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

- 720 216 5/9 HUMAN RESOURCES RESEARCH ORGANIZATION ALTANDRIA VA

Performance in Five Army Jobs by Men at Different Aptitude (AFQT) Levels: II. Development and Description of Instruments.

3

DESCRIPTIVE NOTE: Technical rept., Elaine N. :Sticht. Thomas G. : DAHC19-70-C-0012 HUMRRO-TR-70-20 DA-2-0-062107-A-712 CONTRACT: REPT. NO. PROJ:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Nov 70, AD-

(*APTITUDE TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), (*APTITUDE TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), JOB ANALYSIS, APTITUDE TESTS, BACKGROUND, QUESTIONNAIRES, DATA PROCESSING, ARMORED VEHICLES, MAINTENANCE PERSONNEL, MILITARY SUPPLIES, MEDICAL PERSONNEL, FOOD DENTIFIERS: *MARGINAL PERSONNEL, *JOBS, *MILITARY APPLICATIONS, ARMED FORCES QUALIFICATION TEST, RATING DESCRIPTORS:

presenting extensive data and analyses, describes the data collection instruments and their development and administration. (Author) To provide information about the performance and characteristics of effective and ineffective manginal personnel in the Army, a study has been made of approximately 1800 men with experience ranging up to Performance was measured by intensive job sample tests, job knowledge tests, and supervisor ratings. and a comparison group of men in the same jobs, but Army records. This report, the second in a series characteristics, and military experiences was obtained through biographical questionnaires, a battery of published and experimental tests, and 20 years in five different Army MOSs. The study included a group of men with Armed Forces Qualification Test scores in the marginal range in the upper levels of the AFQT distribution. Information about background, personal

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL RESEARCH DIV AD- 715 922

Cultural Subgroup Differences in the Relationships between Air Force Aptitude Composites and Training Criteria,

3

Guinn, Nancy ; Tupes, Ernest

C. ; Alley, William E. ; PROJ: AF-7719 TASK: 771902

TR-70-35 MONITOR: AFHRL UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE PERSONNEL, *CULTURE), (*AIR FORCE TRAINING, *APTITUDE TESTS), EDUCATION, PERFORMANCE(HUMAN), TECHNICIANS, MATHEMATICAL PREDICTION

NEGROES IDENTIFIERS:

33

the various areas of enlistment across all technical The study was designed to explore the relationships between aptitude index composite and final school final school grade on aptitude index were compared technical school graduates. Results indicated that where the relationship between aptitude score and consistent trend in prediction error was noted for schools. However, there was a general tendency for performance in technical training differed for the various subgroups, the performance of Negroes and grade in technical training for various cultural high school non-graduates was overestimated. No subgroups based on race, educational level, and geographical area of enlistment. Regressions of North-Northeast area to be overpredicted while for the different subgroups in ten samples of the final school grade for personnel from the those from the Far West-Pacific Coast area

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tended to be underpredicted. (Author)

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PAGE

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 710 618 5/9 5/10 5/11 AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL RESEARCH DIV

DEMOGRAPHIC DIFFERENCES IN APTITUDE TEST PERFORMANCE.

3

MAY 70 34P Guinn, Nancy : Tupes, Ernest Alley, William E. :

PROJ: AF-7719 TASK: 771902

MONITOR: AFHRL TR-70-15

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE PERSONNEL, APTITUDE TESTS), (*APTITUDE TESTS, *CULTURE), PERFORMANCE(HUMAN), FACTOR ANALYSIS, EDUCATION, GEOGRAPHY (U)

 $\widehat{\Xi}$ in most factor areas, with its highest relationhip in and each aptitude test was significant for all tests. Significant net relationships of race, educational relationships between these variables and the aptitude test factor content. Five test batteries were administered to groups of approximately 1,900 subjects each. Multiple linear regression analyses indicated that there were significant interaction effects for six of the selected tests. The relationship between the cultural variables combined factor content, race appeared to be related to tests cultural variables were investigated as well as the relationships with verbal, numerical, and reasoning level, and geographical area were found with a majority of tests although wide differences were found among aptitude tests in their sensitivity to to factor content was noted for geographical area. aptitude test performance and certain demographicmechanical area. No discernible trend with regard demographic-cultural influences. With regard to The joint and independent relationships between the mechanical area. Education had the highest factors and the lowest relationships with the (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 710 602 5/9 AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL RESEARCH DIV DEVELOPMENT AND STANDARDIZATION OF THE AIR FORCE OFFICER QUALIFYING TEST FORM K, (U)

JUN 70 18P Miller, Robert E. REPT. NO. AFHRL-TR-70-21 PROJ: AF-7717 TASK: 771706

UNCLASSIFIED REPORT

DESCRIPTORS: (*OFFICER PERSONNEL, *APTITUDE TESTS), TEST CONSTRUCTION(PSYCHOLOGY), SELECTION, CLASSIFICATION, STATISTICAL PROCESSES, PILOTS, NAVIGATORS, TECHNICIANS, RELIABILITY

IDENTIFIERS: AIR FORCE OFFICER QUALIFYING TEST, TALENT (U)

PROJECT

The Air Force Officer Qualifying Test
(AFOQT) is used throughout the Air Force as a
measure of aptitudes for a variety of officer
personnel programs. A new form of the test is
produced every two years to minimize obsolescence of
content and the possibility of compromise. The
problem was to construct a new form of the AFOQT,
to be known as form K, for implementation in
Fiscal Year 1970. This problem involved taking
steps to insure that scores obtained with the new
form have the same meaning as scores obtained with
earlier forms. These scores are known as the
Pilot, Navigator-Technical, Officer
(Author)

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20MD9 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

TEST RESEARCH SERVICE INC BRONXVILLE N AD- 710 580

DEVELOPMENT OF AVIATION CLASSIFICATION TEST FORMS 5

Davis, Frederick B. ; DESCRIPTIVE NOTE: Technical rept., CONTRACT: Nonr-758(00) PROJ: NR-151-116

UNCLASSIFIED REPORT

PERSONNEL, CLASSIFICATION), (*PILOTS, *APTITUDE TESTS), TEST CONSTRUCTION(PSYCHOLOGY), REVIEWS, RELIABILITY, CORRELATION TECHNIQUES, PERFORMANCE(HUMAN), VOCABULARY, MEASURING INSTRUMENTS, DECISION MAKING, MATHEMATICS, REGRESSION ANALYSIS, STATISTICAL PROCESSES (*NAVAL AVIATION, APTITUDE TESTS), (*NAVAL DESCRIPTORS:

3 Items were then selected in such a way as to cause the new forms to be parallel, to differentiate among applicants efficiently over a wide range of ability, preflight school were computed, and from these data, predict with maximum accuracy performance in a Navy and to yield single raw scores that would correlate as high as possible with grades in the preflight classification test are presented. These are known as Forms 5 and 6 of the aviation qualification test. Multiple-regression weights that would cause the types of items included in these new forms to Iwo new forms of a test to replace the aviation the outline of Forms 5 and 6 was constructed. school. (Author)

UNCLASSIFIED

1- 710 186 5/9 5/10 INDIANA UNIV BLOOMINGTON INST OF EDUCATIONAL RESEARCH DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. AD- 710 186

3 CALIBRATION OF NAVY CLASSIFICATION TESTS WITH CIVILIAN INTELLIGENCE TESTS.

JUL 54 123P Auble, J. Donavon : Fattu, Nicholas A. ; Standlee, Lloyd S. ; DESCRIPTIVE NOTE: Memorandum rept., Nonr-908(01) CONTRACT:

UNCLASSIFIED REPORT

TESTS. (*APTITUDE TESTS, CALIBRATION), CLASSIFICATION, MATHEMATICS, MECHANICAL ENGINEERING, INTELLIGENCE READING, STATISTICAL ANALYSIS IDENTIFIERS: LITERACY, MARGINAL PERSONNEL, MENTAL APTITUDE, COMPARISON DESCRIPTORS: (*NAVAL TRAINING, APTITUDE TESTS),

3

mental ability, when given his scores on the battery of Navy classification tests. (Author) score of a marginal sailor on an individual test of manginally literate Naval personnel. A subsidiary military classification tests and other selected aim was to derive an equation for predicting the relationships obtaining among scores on certain measures of mental ability for a population of The purpose of the study was to determine the

PAGE

SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N AD- 710 018

3 DEVELOPMENT OF PERSONALITY TESTS FOR NAVAL OFFICER SELECTION. I. ANALYSIS OF U. S. NAVAL ACADEMY CRITERION OF APTITUDE FOR SERVICE.

DESCRIPTIVE NOTE: Technical rept., MAR 51 32P Ricciuti, Henry N.; French

RB-51-7, TR-1 M LHOD

N90nr-982(01) CONTRACT: N90nr-9 PROJ: NR-151-030

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-710 023.

33 DESCRIPTORS: (*APTITUDE TESTS, *OFFICER PERSONNEL), (*NAVAL PERSONNEL, SELECTION), PERSONALITY TESTS,

LEADERSHIP IDENTIFIERS: *NAVAL ACADEMY

Intercorrelations were computed among aptitude for service ratings for three summer cruises and two academic periods, standings in academic courses, and scholastic aptitude test scores, using 633 members of personality measures to supplement the more scholastically oriented aptitude tests used in the selection of Naval officers. The first year's work, recently completed, was concerned with a study of associates and officers; ratings of U. S. Naval Academy midshipmen on 'aptitude for service,' or leadership potential. The objective of the survey is the development of the class of 1951. (Author)

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SEARCH CONTROL NO. ZOMD9 DDC REPORT BIBLIOGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N

PREDICTION OF SECOND-YEAR GRADE-POINT AVERAGES AT THE U. S. NAVAL POSTGRADUATE SCHOOL.

3

DESCRIPTIVE NOTE: Technical rept., Jul. 50 28P Mollenkopf, William G. JUL 50 28P CDNTRACT: N9Onr-982(02) PROJ: NR-151-050

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, *NAVAL TRAINING), (*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION), CORRELATION TECHNIQUES, TIME, MATHEMATICS, PHYSICS, ENGINEERING, READING, ANALYSIS OF VARIANCE, PATTERN RECOGNITION, TEST CONSTRUCTION(PSYCHOLOGY), STATISTICAL PROCESSES

3 year quality-point ratios, were correlated in 1950 with grade data for the first two terms of the second year at the School. Scores on all the tests previously observed to have high effectiveness for predicting first-year academic performance were found to be significantly related to second-year grades. Using a technique developed by Horst, an estimate was obtained for the value of a multiple correlation Dreviously validated against the criterion of firsttests were given to members of the incoming class at the Naval Postgraduate School. These tests, In July 1948 twenty aptitude and achievement between tests and criterion. (Author)

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA AD- 707 125

PRELIMINARY REPORT ON A TEST OF MECHANICAL COMPREHENSION.

Evans, John T. ; MAR 70 11P E REPT. NO. NAMI-1103 PROJ: MF12.524-002 TASK: MF12.524-002-5001D

MF12.524.002-5001D-59 NAVMED MONITOR:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*AVIATION PERSONNEL, *APTITUDE TESTS), NAVAL TRAINING. PILOTS, JOB ANALYSIS, GEARS, DISPLAY SYSTEMS, CONTROL SYSTEMS

 $\widehat{\Xi}$ The problem was to devise a mechanical task that would include more of the specific elements required Discrepancies between mechanical comprehension test scores and later performance by aviators suggested that paper-pencil tests do not measure the type of mechanical comprehension required of the aviator. in the pilot's job. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

ARMY BEHAVIOR AND SYSTEMS RESEARCH LAB ARLINGTON VA THE ARMED SERVICES VOCATIONAL APTITUDE AD- 706 832

BATTERY.

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DESCRIPTIVE NOTE: Technical research rept., FEB 70 45P Bayroff,Abram G. ;Fuchs, REPT. NO. BESRL-TR-1161 PROJ: DA-2-Q-062106-A-722 Edmund F. ;

UNCLASSIFIED REPORT

3 3 states)), word association, mathematical logic, space IDENTIFIERS: *MILITARY OCCUPATIONS, *ARMED SERVICES VOCATIONAL APTITUDE BATTERY perception, mechanical engineering, machine shop practice, passenger vehicles, electronics, coding, performance(human), reliability, correlation SELECTION), (*APTITUDE TESTS, ARMED FORCESUNITED DESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY), techniques

The document is concerned with the development of a common aptitude battery for use by all the services. The objective of the study reported was to identify among classification tests of the Army, Navy, and Air Force, those which were interchangeable in terms of abilities and aptitudes measured; and from those so identified, to develop shortened forms to constitute an alternate inter-service battery which would not require testing time in excess of two and one-half hours. Seven sets of tests were identified as interchangeable. (Author)

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54

PAGE

SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO AD- 704 CALIF

3 A NON-COGNITIVE TEST BATTERY AS A PREDICTOR OF CLASS 'A' SCHOOL PERFORMANCE.

Lau. Alan W. : Lacey. Lynn ; Final rept. Abrahams, Norman M.; 21P DESCRIPTIVE NOTE: 20 MAR

PROJ: PF39.521.007.01.01

UNCLASSIFIED REPORT

33 (*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION), TEST CONSTRUCTION(PSYCHOLOGY), MOTIVATION, ATTITUDES(PSYCHOLOGY), QUESTIONNAIRES, JOB ANALYSIS, PERSONALITY, NAVAL PERSONNEL, DATA PROCESSING, REGRESSION ANALYSIS, CORRELATION TECHNIQUES DESCRIPTORS: (*APTITUDE TESTS, NAVAL TRAINING),

3 classification are aptitude measures, the addition to performance. As part of a program of evaluating non-cognitive tests for use in predicting performance in a group of representative class A schools, the non-cognitive tests as predictors of enlisted school research is to evaluate the effectiveness of several the test battery of measures of job preferences and motivation seemed advisable. The purpose of this students at seven class A schools varying widely in (NAL) were analyzed for their ability to augment the validity of basic test battery (BTB) scores in predicting school performance. The non-cognitive tests were administered experimentally to incoming curriculum and to a sample of students in the submarine school. Scores were combined with BTB subtests to determine if non-cognitive test scores hand skills tast (HST), Navy activities preference blank (NAPB), and Navy adjective list supplemented BTB measures in multiple-regression Since most tests used in Navy selection and equations. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO AD- 703 611 CALIF A PRELIMINARY EVALUATION OF BRIEF NAVY ENLISTED CLASSIFICATION TESTS

3

Swanson, Leonard ; Rimland Technical bulletin, 34P DESCRIPTIVE NOTE: 20 Bernard ; ZAO

PROJ: PF39.521.005.01.01 REPT. NO. STB-70-3

UNCLASSIFIED REPORT

33 (*NAVAL TRAINING, *APTITUDE TESTS), (*NAVAL PERSONNEL, CLASSIFICATION), REVIEWS, COMPUTER PROGRAMMING, EFFECTIVENESS, ELECTRONIC TECHNICIANS, RELIABILITY, CORRELATION TECHNIQUES
IDENTIFIERS: NAVY BASIC TEST BATTERY, EVALUATION DESCRIPTORS:

developing short tests from the full length tests of without unduly lengthening the time used in testing. The purpose of the study was to make a preliminary range of aptitudes and interests could be measured evaluation of the effectiveness of a computerized Improved differential assignment of Navy recruits to schools and jobs would be possible if a wider item selection program, Program SEQUIN, for the Basic Test Battery (BTB). (Author)

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

DEVELOPMENT OF IMPROVED APTITUDE AREA COMPOSITES FOR ENLISTED CLASSIFICATION. ARMY BEHAVIORAL SCIENCE RESEARCH LAB ARL" GTON VA AD- 701 134

DESCRIPTIVE NOTE: Technical research rept.. SEP 69 49P Maier, Milton H. ; Fuchs, REPT. NO. BESRL-TRR-1159 PROJ: DA-2-0-062106-A-722 Edmund F. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY RERSONNEL, PERSONNEL MANAGEMENT), (*APTITUDE TESTS, EFFECTIVENESS), REVIEWS, ARMY TRAINING, TEST CONSTRUCTION(PSYCHOLOGY), CORRELATION TECHNIQUES, MATHEMATICAL PREDICTION, DATA PROCESSING (U) IDENTIFIERS: ENLISTED PERSONNEL (U)

3 accurate assessments of their potential to perform in the different job categories. Based on a longitudinal study of the effectiveness of the Army the scores from these composites are used in making decisions about the men's assignments. The productivity of the men in their training and job classification battery (ACB) tests in predicting training success in military occupational specialty developed to measure the potential of the men, and composites and the benefits that would derive from to the demands of training courses and jobs is an (MOS) courses, an improved set of aptitude area Matching the abilities of men entering the Army ever-critical problem facing Army personnel management. Aptitude area composites have been assignments can be enhanced by obtaining more their use are described in the present report. composites has now been developed. These (Author)

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SEARCH CONTROL NO. ZOMO9 5/10 DDC REPORT BIBLIOGRAPHY 5/8 AD- 687 105

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

NAVY RECRUIT CLASSIFICATION TESTS AS PREDICTORS OF PERFORMANCE IN 87 CLASS 'A' ENLISTED SCHOOLS

(1964-1966).

3

Thomas, Edmund DESCRIPTIVE NOTE: Final rept., REPT. NO. NPRA-SRR-69-14 PROJ: PF395210050102

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*NAVAL TRAINING, *APTITUDE TESTS),
(*PERFORMANCE(HUMAN), PREDICTIONS), CLASSIFICATION,
RELIABILITY, STATISTICAL DATA, GRAPHICS, MANPOWER, TEST
CONSTRUCTION(PSYCHOLOGY)
IDENTIFIERS: ENLISTED PERSONNEL DESCRIPTORS:

3 from both a cost and manpower utilization standpoint. school marks are reported graphically for each school along with validity coefficients and information on academic attrition. It was found that about 11 per cent of al! students failed to complete courses for This report summarizes the results of a validation study involving students of 87 Class 'A' level schools enrolled between 1964 and 1966. the classification tests were effective for nearly classification tests determine, in large part, the academic reasons. Rates of attrition in excess of qualify for academic training in basic Class 'A' level schools. How well the classification tests predict performance in these schools is important 20 per cent were noted in 12 schools. In general, all of the 87 schools. For about one-half of them Relationships between selection scores and final receive. Approximately 50 per cent of recruits :ype of job specialty training a recruit will Scores earned on the Navy's enlisted prediction was very good. (Author)

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PAGE

20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

CIVIL AEROMEDICAL INST OKLAHOMA CITY OKLA

A COMPARATIVE STUDY OF AIR TRAFFIC TRAINEE APTITUDE-TEST MEASURES INVOLVING NAVY, MARINE CORPS AND FAA CONTROLLERS,

3

Cobb, Bart B. 68-14 21P MONITOR: FAA-AM

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR TRAFFIC CONTROLLERS, *APTITUDE TESTS). NAVAL PERSONNEL, CIVILIAN PERSONNEL, CORRELATION TECHNIQUES, MILITARY TRAINING, SELECTION (U)

found to have been selected from relatively higher military-screening-and-classification (MSC) test basic air-traffic-controller (ATC) training course effectively predict performance grade and pas-fail The study concerns the experimental use of severa Marines and over 600 Naval students who entered a involving only four of the tests could be used to status for the training course. The Marines were determination of their validity as predictors of score ranges than the Naval trainees and their training-performance grades for more than 300 The results indicated that a composite score commercially-published aptitude tests and a training-course failure rate was lower. (Author)

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY AD- 683 725 5/9 5/10
AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL RESEARCH DIV

3 SELECTION OF FOREIGN STUDENTS FOR TRAINING IN THE UNITED STATES AIR FORCE,

Mullins, Cecil J. : Keeth James B. :Riederich, Larry D. ; PRDJ: AF-7719 TASK: 771906 89 No.

MONITOR: AFHRL TR-68-111

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE TRAINING, *APTITUDE TESTS), (*STUDENTS, SELECTION), CLASSIFICATION, TEST CONSTRUCTION(PSYCHOLOGY), TEST METHODS, PREDICTIONS, RELIABILITY, STATISTICAL PROCESSES, REGRESSION ANALYSIS

* FOREIGN, *STUDENTS DENTIFIERS:

33

in pilot and technical training for groups of foreign addition to previous flying experience two types of A group of tests has been used to predict success nationals trained in the United States. In

those going into pilot training without previous pilot experience, one performance test, rudder control, gave the highest prediction, with one of the that three of the paper-and-pencil tests, used alone, tests were tried: paper-and-pencil and performance showed low but significant prediction. It is noted are significantly valid for pilot training and can make considerable improvement in pilot trainee paper-and-pencil tests adding significantly. For technical training, five paper-and-pencil tests tests, hopefully of low cultural loading. For selection procedures. (Author)

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PAGE

57

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 682 223 5/10 EDUCATIONAL TESTING SERVICE PRINCETON N J SOME APPLICATIONS OF PROCEDURES FOR ALLOCATING (U)

DESCRIPTIVE NOTE: Technical rept.,
JAN 69 44P Novick, Melvin R.; Thayer,
Dorothy T.;
REPT. NO. R8-69-1

CONTRACT: N00014-69-C-0119

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, TIME), (*ACHIEVEMENT TESTS, RELIABILITY), (*TEST CONSTRUCTION(PSYCHOLOGY), MATHEMATICAL MUDELS), ALGORITHMS, OPTIMIZATION, WEIGHT, SCALE, MATRICES(MATHEMATICS), CORRELATION TECHNIQUES, ERRORS, TABLES(DATA)

found that the use of the optimal time procedure with algorithm for allocating testing time, when using regression and unit weights respectively, are presented, using data especially selected to illustrate how these techniques overcome the major difficulties, both computational and methodological, that may arise in such analyses. Several further combinations of original or optimal time allocations applications the gain from using optimal lengths and optimal weights instead of original lengths and unit investigate certain important substantive questions. allocations may be required for different subgroups. show how time allocation methodology can be used to Some evidence is found to suggest that for certain sets of data are analyzed to compare the composite subscales. The primary purpose of this paper is to scale correlations obtained with a criterion using unit weights sometimes leads to results that are Detailed computations and data analysis using an weights for subtests may be worthwhile. It is regression weights. Finally, some evidence is nearly as satisfactory as optimal times with and unit or optimal weights for homogeneous found to suggest that quite different time (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9 AD- 664 891 5/9 9/3

APPLIED SCIENCE ASSOCIATES INC VALENCIA PA

EFFECT OF AMBIGUOUS TEST RESULTS ON TROUBLESHOOTIN

EFFECT OF AMBIGUOUS TEST RESULTS ON TROUBLESHOOTING PERFORMANCE.

DESCRIPTIVE NOTE: Final rept. Apr 66-Apr 67, NOV 67 45P Pieper, William J. : Folley,

John D. , Jr; CONTRACT: AF 33(615)-3966 PROJ: AF-1710

TASK: 171004 MONITOR: AMRL TR-67

UNCLASSIFIED REPORT

DESCRIPTORS: (*MAINTENANCE PERSONNEL, *APTITUDE TESTS), (*ELECTRONIC EQUIPMENT, MAINTENANCE), ELECTRONIC TECHNICIANS, PERFORMANCE(HUMAN), TRAINING, FAILURE, ELECTRONICS, JOB ANALYSIS, EXPERIMENTAL DESIGN (U) IDENTIFIERS: TROUBLESHOOTING (U)

troubleshooting strategy since both medium and high Forty-eight high school boys, used as subjects, were divided into eight groups of six each. Four of the groups were composed of 'medium' electronic aptitude subjects used the same number of tests in solving the problems. Ambiguity of test results practice in isolating malfunctioning components in and pencil between-stage troubleshooting problems, one set of 6 at each of four levels of ambiguity data-flow diagrams using the half-split strategy. - 62. The other groups contained subjects with high, '75 to 99 percentile, electronic aptitude. strategy. The greater the percentage of ambiguous test results, the more time required, the less During testing each subject group worked 24 paper affected speed, accuracy, and application of the aptitude had no effect on the application of the (0%, 10%, 20%, and 40%). The performance measures used were: (1) isolation time, (2) number of isolation tests, and (3) identification errors. Subject aptitude had the aptitude subjects having scores in the 40 to 65 percentile range on the Airman Qualifying Exam Each subject received 11 hours of training and greatest effect on speed (isolation time) and accuracy of identifying the guilty component (identification errors). On the other hand,

accuracy attained.

59

PAGE

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DOC REPORT BIBLIOGRAPHY

SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

- 663 517 5/9 5/10
NAVAL MEDICAL RESEARCH LAB NEW LONDON CONN AD- 663 517

3 AVERAGE NAVY BASIC BATTERY APTITUDE TEST SCORES FOR ENLISTED SUBMARINERS.

THE EFFECT OF ELECTRONIC APTITUDE ON PERFORMANCE OF PROCEDURALIZED TROUBLESHOOTING TASKS.

APPLIED SCIENCE ASSOCIATES INC VALENCIA TA

AD- 664 889

DESCRIPTIVE NOTE: Final rept. Apr-Nov 66, NOV 67 54P Elliott,Thomas K.: CONTRACT: AF 33(615)-3966

DESCRIPTIVE NOTE: Progress rept. no. 2, JAN 46 5P Bartlett.N. R. ;

UNCLASSIFIED REPORT

DESCRIPTORS:

3

The table was prepared in order to establish standards as guides for two problems in submarine personnel selection: (1) The selection of instructors; and (2) the selection of recruits A table of average aptitude scores is presented. for training. (Author)

33

(*ELECTRONIC EQUIPMENT, MAINTENANCE), (*APTITUDE TESTS, ELECTRONIC TECHNICIANS), ELECTRONICS, FAILURE, PERFORMANCE(HUMAN), SIMULATORS, TRAINING DEVICES (U) IDENTIFIERS: TROUBLESHOOTING (U)

(*MAINTENANCE PERSONNEL, TRAINING),

DESCRIPTORS:

UNCLASSIFIED REPORT

TR-67-154

MONITOR: AMPL TASK: 171004

After twelve hours training, twenty subjects with

no prior training in electronics solved complete electronic equipment maintenance problems on a realistic equipment simulator, the MTS-2.
Subjects selected were from two electronic aptitude groups (AQE-E1 45-60 and 80-95 percentiles).
The problems were composed of equipment checkout, malfunctioning, black box' isolation (within-stage troubleshooting), and repair tasks. In lieu of expensive conventional electronic training, subjects were aided in the performance of the above

noted in the ability of the two groups to isolate defective 'black boxes' and pieceparts; high-aptitude aptitude had no effect on performance time, or errors in repair. A small but significant difference was

tasks by troubleshooting guides which, given the result of previous checks, told subjects where to check next. Results of the study showed that

subjects performed somewhat better on this dimension.

(Author)

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UNCLASSIFIED

20MD9

JAN 46 5P NO. NMRL-87 PROJ: NAVMED-X-596

FESCRIPTORS: (*SUBMARINE PERSONNEL, SELECTION), (*APTITUDE TESTS, SUBMARINE PERSONNEL), INSTRUCTORS, NAVAL TRAINING, TABLES(DATA), STANDARDS

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

- 662 696 5/10 5/9 PURDUE RESEARCH FOUNDATION LAFAYETTE IND

3 THE PREDICTIVE VALIDITY OF CERTAIN MEASURES OF CREATIVITY IN MACHINE DESIGN.

Owens, William A. DESCRIPTIVE NOTE: Final rept., SEP 67 18P Owens, CONTRACT: Nonr-1100(22) PROJ: NR196-031

UNCLASSIFIED REPORT

ESCRIPTORS: (*CREATIVITY, ENGINEERS), (*APTITUDE TESTS, CREATIVITY), PREDICTIONS, MACHINES, DESIGN, ENVIRONMENT, DESCRIPTORS: SELECTION

3 A report is made on the predictive validity of a battery of tests for creativity in machine design. It relates scores obtained in college to a composite criterion of creativity collected via selfappraised at the time of the follow-up with a view to report some 10 years later. Personal (non-cognitive) and environmental influences moderating ultimate validity coefficient for all measures was academic under-achievement and a Professional and research orientation of supervision, respectively, providing a sort of closed-system analysis. An the predictor-criterion relationship were also estimated at 0.35 to 0.40. A tendency towards characterized the more creative engineer. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

3 CONVERSION TABLES FOR AIRMAN QUALIFYING EXAMINATION AND EMPLOYEE APTITUDE SURVEY SCORES,

Madden, Howard L. : Valentine 23P 67

Lonnie D. , Jr. REPT. NO. PRL-TR-67-7 PRGJ: AF-7719

771906

TASK:

UNCLASSIFIED REPORT

JESCRIPTORS: (*APTITUDE TESTS, AIR FORCE PERSONNEL), (*AIR FORCE PERSONNEL, SELECTION), TEST CONSTRUCTION(PSYCHOLOGY), STANDARDIZATION, RECRUITING, PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES, PREDICTIONS, PERFORMANCE(HUMAN) DESCRIPTORS:

3

indexes and subtest scores are presented, as well as In the high school testing program conducted by the USAF Recruiting Service, there is occasional reference to relationships between the Airman tables for estimation of AQE aptitude indexes from tests. Information concerning these relationsnips can be useful to guidance counselors. This report contains data on the relationships between the EAS scores. The two batteries appear to measure essentially similar abilities. (Author) Qualifying Examination. Conversion tables for Qualifying Examination and certain civilian estimation of EAS scores from AQE aptitude Employee Aptitude Survey and the Airman

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX AD- 661 997

AN ANALYSIS OF CERTAIN METHODS FOR INCREASING THE VALIDITY OF THE AIRMAN QUALIFYING EXAMINATION FOR THE CLASSIFICATION OF BASIC AIRMEN,

Tupes, Ernest C. ; Bottenberg Robert A. :McReynolds, Jane ; REPT. NO. PRL-TR-67-6 PROJ: AF-7717 21P

771705

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, AIR FORCE PERSONNEL), (*AIR FORCE PERSONNEL, SELECTION), TEST CONSTRUCTION(PSYCHOLOGY), STANDARDIZATION, RECRUITING, PSYCHOLOGICAL TESTS, PREDICTIONS, PERFORMANCE(HUMAN), CLASSIFICATION DESCRIPTORS:

performance in technical training courses which might be obtained by the use of (a) aptitude composites derived from optimally weighted subtests along with additional information, or (b) separate aptitude composites derived for each technical course, or any one of four aptitude composites, each derived by determine the increase in validity for prediction of validity of the selection and classification system a simple summation of scores on certain subtests of and the utilization of separate composites for each Data from 46,000 enlistees and 88 technical courses addition of information to the aptitude composites technical course would significantly increase the The present report describes a study designed to Force is based primarily on relative standing on (c) separate aptitude composites derived for enlistees from different geographical areas, or (d) various combinations of these variables. Screening and initial assignment of non-priorwere analyzed. It was concluded that both the service enlistees in the United States Air the Airman Qualifying Examination (AQE). (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

AD- 661 996

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

EXAMINATION-66

DEVELOPMENT AND STANDARDIZATION OF AIRMAN QUALIFYING

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Vitola, Bart M.; Madden 67

Howard L.; REPT. NO. PRL-TR-67-5 PROJ: AF-7717

771705 PROJ:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*APTITUDE TESTS, AIR FORCE PERSONNEL), (*AIR FORCE PERSONNEL, SELECTION), TEST CONSTRUCTION(PSYCHOLOGY), STANDARDIZATION, RECRUITING, PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES DESCRIPTORS:

subtests are presented, as well as intercorrelations å program and to provide information to guidance The report describes the development and standardization of the 1966 form of the Airman among Project TALENT tests and AQE variables. The report was designed as a reference source counselors in the high school testing program Qualifying Examination. Descriptive data and statistical characteristics of AQE items and used in the Air Force's selective recruiting (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 661 609 5/9 9/2 SYSTEM DEVELOPMENT CORP SANTA MONICA CAL'S

EVALUATION OF TESTS FOR IMPROVEMENT OF PROGRAMMER (U)

JUL 67 30P Perry, Dallis K.; REPT. NO. TM-3570

UNCLASSIFIED REPORT

DESCRIPTORS: (*PROGRAMMERS, SELECTION), (*APTITUDE TESTS, PROGRAMMERS), TRAINING, PERFORMANCE(HUMAN), REGRESSION ANALYSIS, PREDICTIONS, FACTOR ANALYSIS (U)

and grade-point average and programming interest were perceptual, and numerical ability were of less value, determine the relations of the predictor and training provided a cross-validity coefficient of .50, but no SDC programmer trainees at the start of the training course in 1965 and 1966. Grades in four courses were factor analyzed, and scores on two factors representing 80 percent of the variance in grades were used as criteria. One factor was analysis, gave a cross-validity coefficient of .66 and was recommended for use. System knowledge was less consistently and less highly related to the related to all of the cognitive ability measures. labeled programming ability and the other system knowledge. Programming ability was consistently inconsistent. Further research is recommended to prediction equation was recommended. Measures of predictor variables. A combination of two tests A variety of aptitude tests was administered to predictors of both factors. Measures of verbal, Abilities and Computer Programmer Aptitude Battery tests, selected by multiple regression quantitative reasoning ability were the best variables to job performance. (Author) A combination of three Primary Mental

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 649 650 5/9
DEPARTMENT OF AGRICULTURE WASHINGTON D C PERSONNEL RESEARCH STAFF

PRELIMINARY VALIDATION OF THE OMNIBUS TEST BATTERY: I. SOIL CONSERVATIONISTS,

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APR 67 18P Harmon, Francis L. ; REPT. NO. PRS-67-2

UNCLASSIFIED REPORT

DESCRIPTORS: (*GOVERNMENT EMPLOYEES, *APTITUDE TESTS),
SELECTION, TEST CONSTRUCTION(PSYCHOLOGY),
PERFORMANCE(HUMAN), ACCURACY, STATISTICAL ANALYSIS,
EMPLOYMENT, PSYCHOLOGICAL TESTS, PERSONNEL MANAGEMENT (U)

3 between tests and performance ratings ranged from .29 which, in combination, would best predict ratings in in GS grades 5 and 7, and .44 for those in grades 9 and 11. If these last results can be verified by into a single measure of overall job effectiveness, the multiple correlations rose to .38 for employees cross-validation, the six tests upon which they are to .35. When the four separate ratings were pooled The report describes the first validation study of of whom had been employed a year or longer since testing, were rated by their supervisors on four hundred seventy-three Soil Conservationists, all the Omnibus Battery of the Department of Agriculture's experimental testing program. One aspects of job performance. Multiple regression analyses were carried out to find the six tests each performance factor. Multiple correlations based might be used advantageously to improve accuracy in selecting new employees. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

VALIDATION OF THE 1963 NAVY COLLEGE APTITUDE

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Thomas, Edmund D. ; Thomas, DESCRIPTIVE NOTE: Technical bulletin. AUG 66 28P Thomas, Edmund

REPT. NO. STB-67-4, PROJ: PF016050305, Patricia J. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ESCRIPTORS: (*APTITUDE TESTS, *NAVAL PERSONNEL), STUDENTS, UNIVERSITIES, PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION, EFFECTIVENESS DESCRIPTORS:

 Ξ academic predictors was based on a sample of 1,307 freshmen enrolled in the 1964-65 NROTC Regular program. The NCAT Selection Score yielded corrected correlations of .24 with Grade Point Average (GPA) and .14 with Naval Science Grade (NSG). The High School Rating (HSR) continued to be the most valid single predictor of college performance, producing corrected correlations of .46 with GPA and .31 with NSG. When HSR was combined with the NCAT, the validity was increased to .48 with GPA but no increment was noted for his midshipmen sample was 15 per cent, compared to technical college majors. The rate of attrition for ne national rate for male freshmen of 30 per cent. between groups dichotimized by technical and nondemonstrated significant differential prediction From these figures it was estimated that the reduction in freshmen dropouts saved the Navy at NSG. A comparison of the 1963 NCAT with the Scholastic Aptitude Test indicated the former This study of the validity of the 1963 Navy College Aptitude Test (NCAT) and of other to be slightly more valid. Neither test east \$424,600 in Fiscal Year 1966.

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

- 639 224 5/10 NAVAL PERSCNNEL RESEARCH ACTIVITY SAN DIEGO CALIF AN EVALUATION OF A SHORT FORM OF THE RADIO CODE AD- 639 224

Rimland, Bernard ; Research rept. AUG 66 11P REPT. NO. SRR-67-2, PROJ: PF016C50101, DESCRIPTIVE NOTE: APTITUDE TEST.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 DESCRIPTORS: (*APTITUDE TESTS, CODING), (*COMMUNICATION AND RADIO SYSTEMS, CODING), TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY (U)

outpacing and demotivating the testees, an analysis was made of the feasibility of eliminating most of the fast-paced latter items of the RCAT. been used during and since WWII in the selection of Statistical analysis of a sample of completed RCAT answer sheets showed the final sixty items (40 per cent) of the RCAT could be eliminated with no loss in psychometric efficiency. The short (60 per cent) form correlated .96 with the long form, and each form had a reliability of .95. Since most items unanswered by the testees were found to have personnel for Morse Code training. As a result of recent criticism that the test was too highly speeded toward the end, and was thus hopelessly The Radio Code Aptitude Test (RCAT) has

is recommended that items 166 through 225 be omitted occurred in the final, highly-speeded 40 per cent of the test, it may be assumed that testee frustration will be greatly reduced by the shortened RCAT. It from future testing with the Radio Code Aptitude Test. A conversion table for

obtaining Navy Standard Scores from the new short form RCAT is provided. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 626 612 5/9 5/10

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF
GEOGRAPHICAL DIFFERENCES IN RESPONSES TO A TEST OF
VOCATIONAL INTERESTS. (U)

DESCRIPTIVE NOTE: Research rept. Jan 64-Dec 65, JAN 66 14P Stephenson, Richard R.; REPT. NO. SRR-66-10 PROJ: PF-016070202

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-620 320.

DESCRIPTORS: (*APTITUDE TESTS, GEOGRAPHY), (*GEOGRAPHY, APTITUDE TESTS), (*OFFICER PERSONNEL, SELECTION), NAVAL, PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES, ANALYSIS(U)

The purpose of this study was to test for geographic response bias in a commercial test of vocational interests, the Strong Vocational Interest Blank (SVIB). The SVIB is being evaluated for possible use in the selection of career oriented officer commissioned through the NROTC (Regular) officer procurement program. To make this geographic evaluation, the continental United States was first divided into six areas following popular notions of geographical stereotypes. A contingency analysis was then performed, analyzing item response differences across geographical areas. Six of the 405 SVIB items yielded significant response biases attributable to geographical area of residence. These items were excluded from further consideration in the construction of a career naval officer 'occupational' scoring key for the SVIB.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 625 224 5/9 12/1
ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C

OPTIMAL ALLOCATION OF ENLISTED MEN: FULL REGRESSION EQUATIONS VS. APTITUDE AREA SCORES. (U)

DESCRIPTIVE NOTE: Technical research note, NOV 65 28P Sorenson, Richard C.; REPT. NO. APRO-TRN-163 PROJ: DA-2-J-024701-A-722

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONNEL MANAGEMENT, OPTIMIZATION), (*APTITUDE TESTS, PERSONNEL MANAGEMENT), STATISTICAL, MANPOWER, PERFORMANCE(HUMAN), LEAST SQUARES METHOD

3 optimal allocation procedure, performance of enlisted on continuing research directed toward increasing the efficiency of allocation through use of the Army in seekipg solutions to manpower management problems. The present Technical Research Note reports psychological, mathematical, and combuter technology regression estimates from all ACB tests rather than research using a simulation technique evaluates the loss in performance efficiency attributable to the Areas--rather than the superior eleven variable men could be substantially increased by using Classification Battery (ACB) test scores. The regression estimate. It was found that in an use of the two variable composites -- Aptitude The Manpower Information and Computerized Systems Task utilizes the growing body of the two test composites. (Author)

20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

DEVELOPMENT AND PRELIMINARY VALIDATION OF THE ELECTRONIC DATA PROCESSING TEST-63.

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Lecznar, William B. ; Klesch, PRL-TR-65-12 22P 29 NO John K. ;

TASK: 771705 7717

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 DESCRIPTORS: (*COMPUTER OPERATORS, APTITUDE TESTS), (*APTITUDE TESTS, COMPUTER OPERATORS), DATA PROCESSING, COMPUTER PROGRAMMING, WORD ASSOCIATION, AIR FORCE PERSONNEL

IDENTIFIERS: PERSONNEL SCREENING TESTS

other predictors combined. The next most effective predictor was the General Aptitude Index of the EDPT-63 was found to have substantial validity for all of the samples available. In many instances, subtests were optimally weighted, they yielded a substantially higher multiple correlation than all Force records, it is necessary to identify airmen who can be trained to handle new electronic data it was the best single predictor and when its 4 Analogies. This report covers the development and initial validation of EDPT-63 for technical predictors such as the aptitude indexes of the Airman Qualifying Examination, education, and the Armed Forces Qualification Test (AFQI). effectiveness was compared to other possible Processing Test-63(EDPT63) was developed to meet this need. The test is composed of 4 As a result of increasing automation of Air processing equipment. The Electronic Data subtests: Arithmetic Reasoning, Figure Analogies, Number Series, and Verbal Air Qualifying Examination. (Author) courses 685x0 and 687x0. The test's

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

3 NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF INVESTIGATION OF THE UNITED STATES NAVY CLERICAL APTITUDE TEST, FORM 6,

Final rept.,
P Curtis, Ervin W. ; AUG 65 34P REPT. NO. STB-66-7 PRGJ: 3 1605 01 0152 DESCRIPTIVE NOTE:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*APTITUDE TESTS, NAVAL PERSONNEL), (*NAVAL PERSONNEL, SELECTION), TEST CONSTRUCTION(PSYCHOLOGY), CORRELATION TECHNIQUES, STATISTICAL ANALYSIS, TABLES(DATA)

on several of these tests were more highly correlated with final grade than was CLER. These tests also improving CLER and its utilization were considered. Several aspects of the format of CLER were aids significantly, but only slightly, in selecting previous analyses gave a true indication that CLER short clerical aptitude tests were administered to data of a previous investigation were analyzed in criticized. The investigation was extended to the search for a clerical aptitude test that would be determine how well CLER would predict broad categories of final grade. It was concluded that determine the effect of waivers (selectees whose underlying the data analyses were satisfied, to selection test scores were below th operational cutoff) upon the validity coefficients, and to augmented the correlations of GCT and ARI with successive classes in seven A-Schools. Scores final grade more than did CLER. The principle Replacement of CLER An investigation of the content, format, and validity of the United States Navy Clerical Construction of a test similar to the Coding a better test can be put into operation. (2) more valuable to the Navy than CLER. Eleven recruits for these schools. Various ways of order to see if the statistical assumptions Aptitude Test, Form 6 was undertaken. The by its short form (United States Navy Clerical Aptitude Test, Form SB-1) until recommendations were: (1)

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est of the U. S. Army Clerical Speed Test

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 619 990

NAVAL PERSCANEL RESEARCH ACTIVITY SAN DIEGO CALIF

VALIDATION OF THE 1962 NAVY COLLEGE APTITUDE (U)

DESCRIPTIVE NOTE: Technical bulletin,
AUG 65 37P Thomas, Edmund ;Thomas,
Patricia ;
REPT. NO. STB-66-6
PROJ: PF01605040152

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*APTITUDE TESTS, NAVAL PERSONNEL), (*NAVAL PERSONNEL, APTITUDE TESTS), RELIABILITY, UNIVERSITIES, STUDENTS, NAVAL TRAINING, SELECTION, CORRELATION TECHNIQUES, TABLES(DATA)

part of future editions of the NCAT was recommended because of its significant validity. universities throughout the United States. Validities of the individual and experimental NCAT predictor both singly and in combination with the NCAT. The NROTC Questionnaire and edition of the NCAI demonstrated a consistency in the validity of the best and poorest subtests and Interviewers' Appraisal were less predictive and, freshman year of college. The validities of High School Rating (HSR), NRDTC Questionnaire, Interviewers' Appraisal of Motivation, and the Verbal and Mathematical scores of the subtests ranged from .20 to .34 when predicting GPA, and from .09 to .26 when predicting NSG. experimental Spelling subtest as an operational The study investigated the validity of the 1962 The NCAT Operational Score correlated .36 with GPA and .23 with NSG. HSR was the most valid criteria. Comparisons with the previous year's revealed that the later 1962 NCAT was the more in some cases, negatively correlated with the edition of the Navy College Aptitude Test (NCAT) as a predictor of Grade Point Average Scholastic Aptitude Test (SAT) were also determined. The sample included 1252 Regular valid instrument. The incorporation of the NROTC midshipmen attending 52 colleges and (GPA) and Naval Science Grade (NSG) in the

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 619 346 Personnel Research Lab Lackland afb Tex AQE NORMS FOR HIGH SCHOOL SENIORS AND AIR FORCE TRAINING GROUPS,

3

MAY 65 89P Tupes, Ernest C. REPT. NO. PRL-TR-65-10

PROJ: 7717 TASK: 771705 UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*APTITUDE TESTS, STUDENTS), (*AIR FORCE PERSONNEL, SELECTION), AIR FORCE TRAINING, RELIABILITY, RECRUITING

IDENTIFIERS: TALENT PROJECT

The Airman Qualifying Examination (AQE) provides four aptitude indexes (General, Administrative, Mechanical, and Electronics) which are used in the selective recruiting and initial assignment of basic airmen. This report presents normative data for nationwide groups of 12th grade boys and 12th grade girls, and for groups of airmen assigned to technical training in the Air Force. Percentile distributions are presented for all 12th grade boys and all 12th grade girls by type of high school and/or curriculum, by region of the country, and, by size of city within each region. For the Air Force technical school graduation, percentile distributions are shown by region of the country and by city size within each region. For the Air Force technical school groups, percentile distributions are presented along with estimates of the probable success in training of airmen at each aptitude index level. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF

VALIDATION OF THE 1961 NAVY COLLEGE APTITUDE

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Shears, Loyda ; Swanson, DESCRIPTIVE NOTE: Final rept., 25P 65 NOT

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

FESCRIPTORS: (*APTITUDE TESTS, NAVAL PERSONNEL), (*NAVAL PERSONNEL, SELECTION), (*NAVAL TRAINING, UNIVERSITIES), OFFICER PERSONNEL, EDUCATION, STUDENTS, CORRELATION DESCRIPTORS: TECHNIQUES

3 subtest scores for 1345 midshipment from 42 of the 52 colleges participating in the NROTC (Regular) high school ratings for the 1961 sample, however, was similar to those previously obtained. Results of item analysis of one NCAT subtest suggested that improved item selection procedures would be required to increase NCAT validity to earlier validity The purpose of this study was to evaluate the effectiveness of the NCAT administered in December 1961 for predicting freshman college GPA and Naval Science Course grades. High school ratings were validated along with NCAT total and obtained in three earlier years. The validity of program. Analyses were made for each school and for the entire sample. Validities of NCAT subtest and total scores were lower than those levels. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

SERVICE BUREAU CORP SAN ANTONIO TEX

PERFORMANCE ON AIRMAN QUALIFYING EXAMINATION BY REGIONAL AREAS AND BY SEX,

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Lecznar, William B. CONTRACT: AF41 609 2269 APR 65

PROJ: 7719 TASK: 771906

MONITOR:

PRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

JESCRIPTORS: (*AIR FORCE PERSONNEL, SELECTION), (*APTITUDE TESTS, AIR FORCE PERSONNEL), RECRUITING, MALES, FEMALES, PERFORMANCE(HUMAN), SEX, CORRELATION TECHNIQUES, TABLES(DATA) DESCRIPTORS:

3

3 areas, a female sample, and a recruiting sample drawn randomly from nonenlistees and recruits. The airman recruiting population, score distributions on indicating that the high school testing program of data provided regional comparisons that supported previous findings of differences in mean aptitude indexes. The sex findings showed that the male recruits averaged higher on mechanical and the USAF Recruiting Service is having a favorable collected for the population tested from January-September 1962 on AQE-F, and from October 1962-December 1963 on AQE-62. AQE-F samples were male enlistees from each of the 10 regional electronics tests than the women. The recruiting AQE-F recruiting sample on all aptitude indexes, To provide an aptitude description of the recent recruiting examinees and 2 of women. The AQE-F population of AQE-62 averaged higher than the impact on the quality of Air Force enlistees. AQE-62 samples included 2 samples of male the Airman Qualifying Examination were

SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTO' D

3 ARMY SCHOOL TRAINING PERFORMANCE OF EM SCORING LOW ON

DESCRIPTIVE NOTE: Technical research rept., Helme, William H. : REPT. NO. APRO-TRR-1140 PROJ: DA-2-J-024701-A-722 336 64 50

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 IESCRIPTORS: (*ARMY PERSONNEL, PSYCHOLOGICAL TESTS), (*ARMY TRAINING, APTITUDE TESTS), (*APTITUDE TESTS, MANPOWER), SELECTION, TRAINING, PERFORMANCE (HUMAN), STATISTICAL ANALYSIS, MILITARY REQUIREMENTS DESCRIPTORS:

3 continuing series of studies to develop increasingly accurate and differentiated measures of individual generally exceeding acceptable levels, even in courses for which the men had attained the requisite courses, estimates were made of the expected success average general ability can be successfully trained in MOS training included enlisted men admitted from sufficient probability of success in a given course Army classification tests as predictors of success failure rates of category IV men were estimated as to keep attrition at permissible levels--usually 10 percent. For the more difficult courses, In response to the Army's need to attain optimal enlistment standards. From available data on 48 determine the extent to which men of low or low in training of enlisted men in AFQT category IV (10th to 30th percentile) and in lower category use of mancower skills and aptitudes, the New Classification Techniques Task is engaged in a III (31st to 49th percentile). Substantial numbers of AFQT category IV enlisted men could 1953-1957 whose AFQT scores were below current successfully complete MOS training courses of supplementary aptitude area prerequisites are essential to assure selection of men who have in Army school courses. Studies to evaluate potential. One objective of the Task is to noderate or low difficulty level. However, 30 or 100 aptitude area scores. (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

AMERICAN INST FOR RESEARCH WASHINGTON D

3 NORMATIVE DISTRIBUTIONS OF AGE APTITUDE INDEXES FOR HIGH-SCHOOL-AGE BOYS.

Shaycoft, Marion F. ; Tupes 10 64

Ernest C.; CONTRACT: AF 41(657)-324, AF 41(609)-1588 PROJ: AF-7717 TASK: AF-771705

TDR64 17 PRL MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*APTITUDE TESTS, STUDENTS), (*AIR FORCE PERSONNEL, SELECTION), RECRUITING, MILITARY PERSONNEL, MALES, UNITED STATES

3 IDENTIFIERS: AIRMAN QUALIFYING EXAMINATION, PERSONNEL SCREENING TESTS

Examination (AQE) yields 4 aptitude indexes General, Administrative, Mechanical, and The Air Force Airman Qualifying

for nationwide groups of 12th grade boys, 18-year-old enlist immediately after high school graduation, by the branch of the military service in which they plan recruiting, enlistment, and initial assignment of basic airmen. This report presents distributions in percentile form of the four AQE aptitude indexes Distributions are also given for 12th grade boys by recruiters as indications of the aptitude potential to serve. These data are designed to be useful to region of the country, and, for those planning to counselors as an aid in interpreting AQE scores boys, and 15-year-old boys based on equivalent available to them and to high school guidance Electronics) which are used in the selective aptitude composites of Project TALENT tests. schieved by their students. (Author)

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SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON

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Validation of Experimental Electronics Selection Battery.

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Technical research rept., P Andrews, Robert S. : Ringel, REPT. NO. APRO-TRR-1138 2 P DESCRIPTIVE NOTE: JUN 64 Seymmour

UNCLASSIFIED REPORT

DA-2-0-024701-A-723

PROJ:

SUPPLEMENTARY NOTE: Report on Command Systems C-00 Project. DESCRIPTORS: (*ELECTRONIC TECHNICIANS, SELECTION), (*APTITUDE TESTS, ARMY PERSONNEL), (*ARMY PERSONNEL, ELECTRONIC TECHNICIANS), PERSONNEL MANAGEMENT, TEST CONSTRUCTION (PSYCHOLOGY), REASONING, READING, PERSONALITY, PSYCHOLOGICAL TESTS, INTELLIGENCE TESTS, MILITARY REQUIRMENTS, MILITARY TRAINING, CORRELATION TECHNIQUES, PERFORMANCE (HUMAN)

Inventory for Electronics-emerged as the most promising predictors of success in Electronics MOS. The third measure, RME, was composed of radio, mathematics, and electronics information items from several of the tests. five reasoning ability, six noncognitive ability, one personality background--were evaluated in conjunction for means of selecting personnel who can successfully satisfactorily perform in highly critical electronics positions. The present publication summarizes Accelerated use of electronic systems and equipment research accomplished in several integrated studies component experimental measures -- three information, in the Army has generated an increasing requirement which culminated in development of an experimental differentiating between potential for elactronics (high complexity) MOS and electrical (low complexity) MOS. Three measures, two which were electronics selection battery of 15 tests. The derived from a single instrument -- the Personal complete electronics training courses and with the operational Army Classification Battery (ACB) for effectiveness in

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SEARCH CONTROL NO. ZOMD9 DDC REPORT BIBLIOGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D

Research to Improve Enlisted Classification Techniques,

3

Helme, William H. ; PROJ: DA-2-J-024701-A-722 JUN 64 1V REPT. NO. APRO-TRR-1137

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on New Classification

Techniques.

3 PERSONNEL MANAGEMENT. ELECTRONIC TECHNICIANS.
MAINTENANCE PERSONNEL, PERSONALITY, INTELLIGENCE TESTS,
PERFORMANCE (HUMAN), CORRELATION TECHNIQUES, MILITARY
REQUIREMENTS, MILITARY TRAINING
IDENTIFIERS: CLERICAL PERSONNEL, PERSONNEL SCREENING TESTS, ARMY PERSONNEL), TEST CONSTRUCTION (PSYCHOLOGY) ANTHROPOMETRY, PSYCHOLOGICAL TESTS, PHYSICAL FITNESS, (*ARMY PERSONNEL, SELECTION), (*APTITUDE DESCRIPTORS:

3

of combinations of tests which are the most effective maintenance and continued development of the aptitude enlisted men of relatively low ability, (3) developing physical proficiency measures to classify enlisted men is reviewed. Research effort of the NEW CLASSIFICATION TECHNIQUES Task has been devoted developed and ready for comprehensive evaluation as differential predictors of success in occupational EM for combat and combat-support MOS with unusual substantially to improved measures for the Army Classification Battery (ACB) and identification Research responsive to the Army requirement for Clerical job areas: three information tests for Construction and Mechanical-Electrical jobs; areas and subareas. Additional Task objectives area system of differential classification of enlisted men; (2) screening and assignment of General Maintenance, Motor Maintenance, and aptitude and ability tests for Electronics, and personality-interest measures. (Author) encompass (1) identifying potential career physical demands. New Classification tests potential components of the ACB include:

69

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SEARCH CONTROL NO. ZOMOS

DELASSIFIED

THE WALL CALIFORNIA LOS ANGELES

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3 MENT THOSES OF HIGH-LEVEL PERSONNEL.

Guilford, J. P. :

UNCLASSIFIED REPORT

W60n-23810

TARK THE

Research on this proj. continues under " BENEVER'S NOTE:

Sentiment Non-228 20.

(* APTITUDE TESTS, OFFICER PERSONNEL), MINCH | PTORS:

WELLIGENCE TESTS, LEADERSHIP, PERSONALITY, TRAINING, PACTOR ANALYSIS, CORRELATION TECHNIQUES, COAST GUARD,

PEASONNEL SCREENING TESTS DENTIFIERS:

3 MARINE CORPS, NAVAL PERSONNEL

sample of young adult males, usually military officer This project sought to establish the existence of separable intellectual abilities. The typical study began nn with the formulation of hypotheses as **re used or modified, and many new tests were developed as measures of the hypothesized abilities. Scores from the tests were intercorrelated, and the The resulting test battery was administered to a to the nature of certain abilities. Known tests were rotated orthogonally to maximize simple structure, positive manifold, and psychological approximately 200 to 450 for different studies. correlations factor-analyzed. Centroid factors candidates. The sample sizes ranged from

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

۵ ARMY PERSONNEL RESEARCH OFFICE WASHINGTON METHODS FOR IMPROVING ENLISTED INPUT,

3

DESCRIPTIVE NOTE: Technical research rept.,

Bayroff. A. G. : REPT. NO. APRO-TRR-1136 PROJ: DA-1-J-024701-A-722 64

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Rept. on input quality.

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, PERSONNEL MANAGEMENT), (*APTITUDE TESTS, ARMY PERSONNEL), (*PERSONNEL MANAGEMENT, PSYCHOLOGICAL TESTS), TRAINING, STANDARDS, MILITARY REQUIREMENTS, JOB ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY) DESCRIPTORS:

3

Research effort resulted in the implementation of number of operational measures of military trainability: successive forms of the Armed Forces Qualification Test (AFQT) and the Enlistment Screening Test (EST) and

supplementary screening measures for more specific aptitudes, the Army Qualification Battery (AQB); and tests for women applicants, the Armed Forces Women's Screening Test (AFWST), Women's Enlistment Screening Test (WEST), (WACB). With the introduction of a number of new and Women's Army Classification Battery

problems and to contributions of screening activities to classification and other manpower management activity turned to new approaches to screening and replacement tests during FY 1962-63, task

3

interpretability.

functions. Research plans were formulated to study seasonal and regional fluctuations in AFQT score distributions, the aptitude composition of the

civilian manbower pool, new approaches to the detection of deliberate failures, feasibility of shortened screening tests, and practicability of automated testing. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTO": D C AD- 602 979

FEASIBILITY OF ABBREVIATED FORMS FOR THE ENLISTMENT SCREENING TEST.

Waters, Carrie Jean ; heermann, 44P 64 Emil F.

PROJ: 2J024701A722 MONITOR: APRO ,

UNCLASSIFIED REPORT

Rept. on a portion of Subtask C, 'Methods for improving testing'. SUPPLEMENTARY NOTE:

LESCRIPTORS: (*APTITUDE TESTS, ARMY PERSONNEL), (*TEST CONSTRUCTION (PSYCHOLOGY), APTITUDE TESTS), ARMY TRAINING, STATISTICAL ANALYSIS, FEASIBILITY STUDIES (U) DESCRIPTORS:

3 items and two methods of establishing cutting scores were applied experimentally. The 8-item tests were highly comparable to the 48-item EST in the by recruiters to determine whether male applicants for enlistment should be sent on for further testing a 48-item test. Recent developments in psychological testing point to the use of much shorter tests for such limited objectives as estimating the likelihood that an individual will be able to qualify for military service on the AFQT. selecting items and setting cutting scores proved as percentages of examinees classified the same as they Forty 8-item tests were assembled from AFQT 7 and 8 on the basis of item data available from the standardization study. Two methods of selecting effective as the more elaborate and timeconsuming were classified by AFQT. The simpler methods of with the Armed Forces Qualification Test, is The Enlistment Screening Test (EST), used methods. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

DEVELOPMENT AND STANDARDIZATION OF THE AIR FORCE OFFICER QUALIFYING TEST-64,

3

Miller, Robert E. ; Valentine 20P 64 MAR

Lonnie D. ,Jr.; PROJ: 7717 TASK: 771706

TDR64 6 MONITOR: PRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*AIR FORCE PERSONNEL, APTITUDE), (*APTITUDE TESTS, AIR FORCE PERSONNEL), (*OFFICER PERSONNEL, APTITUDE TESTS), PERFORMANCE (HUMAN), MILITARY TRAINING, MILITARY, MATHEMATICAL PREDICTION, PSYCHOLOGICAL TESTS, STANDARDIZATION, SELECTION DESCRIPTORS:

statistics, reliability estimates, and distribution statistics for the composite scores are reported. normative base was the nationwide 12th grade male Qualifying Test, AFOQT-64, replaced AFOQT Form G in September 1963. The new form is more easily administered and scored than earlier forms. It contains 542 items organized into 13 subtests. Scores are obtained for the usual AFOQT composites: Pilot, Navigatorscored for two special composites (Academic and Career Potential) constructed for use only in equivalent Project TALENT composites. Instead of the USAF Academy candidate population, previously used in scaling AFOQT scores, the The composites were scaled with reference to Technical, Officer Quality, Verbal, and Quantitative. In addition, the test can be the AFROTC Officer Education Program. Item A revised form of the Air Force Officer

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population. (Author)

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PAGE

20MOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PREDICTION BY CAREER FIELD OF FIRST TERM AIRMAN PERFORMANCE FROM SELECTION AND BASIC TRAINING VARIABLES.

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Flyer, Eli S. MAR 64 20P CONTRACT: AF41 609 1598 20 P

TDR64 5 PROJ: 7719 TASK: 771902 MONITOR: PRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Data reduction and computer operations performed by Teledyne Systems Corp.

3 ESCRIPTORS: (*AIR FORCE PERSONNEL, APTITUDE TESTS), (*APTITUDE TESTS, AIR FORCE PERSONNEL), PERFORMANCE (HUMAN), MILITARY TRAINING, MATHEMATICAL PREDICTIONS, EDUCATION, STATISTICAL ANALYSIS, MILITARY PERSONNEL DESCRIPTORS:

3 criterion was high airman performance rating vs low rating or discharge. Samples were drawn from 15 career fields. Predictive equations were derived for the full population and for each career-field sample. In all but 2 career fields prediction was improved by equations based on the career-field samples, but a fullpopulation equation was judged performance during the first 2 years of enlistment. Variables included personal data, educational and aptitude data, peer ratings, and an instructor evaluation collected during basic training. The variables were evaluated by multiple regression techniques against a criterion of satisfactory improving airman classification, 29 predictor gain information that might be useful in nore immediately useful. (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

3 AN INVESTIGATION OF THE VALIDITY OF CERTAIN APTITUDE TESTS IN PREDICTING ACADEMIC PERFORMANCE IN THE NAVY MANAGEMENT CURRICULUM OF THE UNITED STATES NAVAL POSTGRADUATE SCHOOL.

DESCRIPTIVE NOTE: Thesis,

Kauder , Robert ; Ebert, Scott 56P

UNCLASSIFIED REPORT

3 OFFICER DESCRIPTORS: (*APTITUDE TESTS, EFFECTIVENESS),
MANAGEMENT ENGINEERING, CORRELATION TECHNIQUES,
PERSONNEL, STATISTICAL ANALYSIS, RELIABILITY,
PERFORMANCE(HUMAN), SELECTION, CLASSIFICATION,
MATHEMATICAL PREDICTION, ACHIEVEMENT TESTS DESCRIPTORS:

3 particular tests were valid predictors of academic achievement. Additionally, an analysis of the data was made using regression techniques in an attempt to provide an insight into possible cut-off scores for Various aptitude test scores were correlated with coefficients were analyzed to determine if the academic grades received by military officers enrolled in the Navy Management Curriculum at use in selecting candidates for the Navy Management Curriculum. The tests used in this study were the Navy Officer Classification Battery (OCB), the Graduate Record Examination (GRE), and the Navy Officer Qualification Test (OQT). School, Monterey, California. The resulting the United States Naval Postgraduate

PAGE

SEARCH CONTROL NO.

DDC REPORT STBLIDGRAPHY

- 479 819 5/10 5/9 NAVAL PERSONNEL PROGRAM SUPPORT ACTIVITY WASHINGTON D C

PERSONNEL RESEARCH LAB

AD- 479 819

DEVELOPMENT OF THE RESERVE OFFICER APTITUDE TEST

FORMS 1 AND 2.

DESCRIPTIVE NOTE: Final rept.,

WTB-66-2 PF-016040202

Harold :

PROJ:

SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

AD- 464 259

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES PSYCHOLOGICAL LAB

ABILITIES. STUDIES OF APTITUDES OF HIGH-LEVE A FACTOR ANALYSIS OF THE SYMBOLIC-EVALUATION

Hoepfner, R. ; DESCRIPTIVE NOTE: Technical rept., 39P 64

REPT. NO. 33 CONTRACT: Non-22820

PROJ: N.R150 044

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

JESCRIPTORS: (*APTITUDE TESTS, FACTOR ANALYSIS), INTELLIGENCE TESTS, TEST CONSTRUCTION (PSYCHOLOGY), TESTS, EFFECTIVENESS, THEORY, STATISTICAL ANALYSIS DESCRIPTORS:

3

3 Based upon Guilford's structure-ofintellect model, six factors of symbolic evaluation were hypothesized to exist as distinct from each other and isolating a motivation factor and possibly determining the influence of motivation upon the test but utilized several kinds, including numbers, aiso from factors represented in certain other domains of the model. Twentyfive experimental tests were developed to serve as measures of the six symbolic judgmental processes from the standpoint of individual differences in terms of basic traits. model, at least three tests were developed for each the uniqueness of the hypothesized factors. Twentyfive tests designed to measure 12 reference factors were also included in order to demonstrate clearly hypothesized factors. In order to obtain factors clearly generalizable to those generated from the reference factors from the structure of intellect addition, three variables designed to measure the examinees' levels of motivation to succeed on the This study approaches the problem of describing designed were not specific to a certain kind of were analyzed as part of the total battery. In aptitude tests were employed in expectation of hypothesized factor. Furthermore, the tests letters, and syllables. Measures of scores. (Author) words. Symbol

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PERSONNEL.

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UNCLASSIFIED REPORT

CONSTRUCTION(PSYCHOLOGY)), PERFORMANCE(HUMAN), MILITARY RESERVES, PERFORMANCE(HUMAN), LEADERSHIP, ANALYSIS, SELECTION, STANDARDIZATION, RELIABILITY, CORRELATION TECHNIQUES, NAVAL PERSONNEL, MATHEMATICAL PREDICTION, (*APTITUDE TESTS, *TEST OFFICER PERSONNEL DESCRIPTORS:

3 sufficiently equivalent in these and other essentials to warrant their operational use interchangeably, in 2 are not only satisfactorily reliable and valid for predicting success in the ROC Program, but method used in developing norms and the results of correlational analysis ensure that ROAT Forms 1 and (ROCST Forms 3 and 4) and Contract Student Selection Test (CSST Forms 3 and 4) currently used in the selection applications for the ROC and NROTC Contract Programs, respectively. The and the similarity in the general ability and educational levels of NROTC Contract applicants to ROC applicants, ROAT Forms 1 and 2 are suitable for operational use, in place of CSST Forms 3 and place of ROCST Forms 3 and 4, in the selection of applicants for the ROC Program. In view of this 4, in the selection of applicants for the NRUTC parallel forms of the Reserve Officer Aptitude This report describes the development of two 'est (ROAT Forms 1 and 2) to replace the Reserve Officer Candidate Selection Test Contract Program. (Author)

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

CURRICULAR AND SPECIFIC TRANSFER TO PROBLEM SOLVING ILLINDIS UNIV URBANA TRAINING RESEARCH L'3

Bereiter, Carl; 169 63 16 TR-13

ABILITY,

Nonr-1834(36) CONTRACT:

UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, MEASUREMENT), (*TRANSFER OF TRAINING, PERSONING, GAME THEORY, LINEAR PROGRAMMING, EFFECTIVENESS, EDUCATION, PSYCHOLOGICAL TESTS DESCRIPTORS:

DENTIFIERS: ABILITIES, LOGIC

33

transfer from a variety of kinds of training to performance on a variety of problem-solving tasks. studies summarized in this report investigate

training consists essentially of practice on parallel heterogeneous sample of subjects, however, it may be groups, though slight, are almost all in a direction suggestive of positive transfer. Students who had studied logic were a little better on Attain That indication of whether or not transfer effects may be better on linear programming problems; students who ones to get excited about, but they should at least not stand in the way of anyone setting out to teach these abilities. (Author) They cover a wide range from studies in which the training is in a well-established content area and the transfer task is radically different from, perphaps even somewhat incompatible with the tasks performed during training, to ones in which the problem-solving ability. Considering the small and Concept; students who had studied game theory were experiment were negative for any claimed transfer forms of the transfer tasks. The results of this worth searching the results for some more direct obtainable. The differences between experimental advantage on it. The effects are certainly not effects of curricular or specific training on had studied hypothesis formation showed some

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

VALIDITY OF AIRMAN QUALIFYING EXAMINATION, FORM F. FOR TECHNICAL TRAINING GRADES-1961,

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McReynolds, Jane ; 146 63

PROJ: 7717 TASK: 771705

TDR63 20 MONITOR: PRL UNCLASSIFIED REPORT

DESCRIPTORS: (*APTITUDE TESTS, AIR FORCE), FEASIBILITY STUDIES, EFFECTIVENESS, MILITARY, TRAINING, INDEXES. IDENTIFIERS: ENLISTED PERSONNEL

fective instrument for use in assigning enlistees to specialty clusters was evidenced by their having the the Airman Qualifying Examination, Form F. was determined for final grades in 49 airman training courses. The selected samples graduating in 1961 ranged in size from 30 to 2233 with only 3 courses that had less than 100 graduates. Ap propriateness of the selector indexes for their highest validity for all but 2 of the 49 courses. training. These validation data demonstrate that The Electronics AI was the most of fective, the Validity of the 4 aptitude indexes derived from illustrate graphically the relationship between scores on the aptitude index and success in the Airman Qualifying Examination is an ef Administrative AI the least. 8 figures technical training. (Author)

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74

20MD9 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

DEVELOPMENT OF ARMED FORCES QUALIFICATION TEST 7 AND ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D

DESCRIPTIVE NOTE: Technical research rept., MAY 63 32P Bayroff,A. G. ;Anderson,Alan

DA-2-J-024701-A-713 NO. APRO-TRR-1132 PROJ:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 DESCRIPTORS: (*MILITARY PERSONNEL, CLASSIFICATION), (*APTITUDE TESTS, TEST CONSTRUCTION (PSYCHOLOGY)), TEST CONSTRUCTION (PSYCHOLOGY) ARMED FORCES QUALIFICATION TEST IDENTIFIERS: DESCRIPTORS:

3 The Armed Forces Qualification Test, the screening test used by all the services, must provide items in four content areas developed by the separate services were administered to 3000 Armed Forces research design for previous forms, experimental test mobilization population as a basis for conversion of test scores to percentile norms. AFQT 7 and 8 $\,$ both a measure of general military trainability and measures of specific aptitudes. Following the correlated substantially with preceding operational alternate forms for screening. Correlation of AFQT 7-8 with years of formal education (r = .53) was slightly less than for the previous forms. Because of the high degree of equivalence of the two forms (r = .94) established in samples totaling 600 cases, a single conversion table was established for AFQT 7 and 8. Based on experimentation, instructions for administering AFQT 7 and 8 have been made shorter and simpler than for previous forms, with no loss in test personnel for item analysis and item selection. standarization samples representative of the forms (r = .89 - .90) and are satisfactory Final forms were then administered to effectiveness. (Author)

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SEARCH CONTROL NO. DOC REPORT SIBLIDGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

COMPARISON OF AIR FORCE APTITUDE INDEXES WITH CORRESPONDING TALENT TEST COMPOSITES,

3

3

Lecznar, William B. ; Tupes 13P 63 100

Ernest C.; FROJ: 7717 TASK: 771705 MONITOR: PRL

TDR63 18

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*APTITUDE TESTS, INDEXES), (*AVIATION PERSONNEL, SELECTION), PSYCHOLOGICAL TESTS, STANDARDIZATION, AIR FORCE

TALENT PROJECT DENTIFIERS:

33

make it possible to standardize new tests directly to recruits in terms of the full range of talent in the draft-eligible population. These conversion tables derived from the Airman Qualifying Examination (AQE). In this study, 8 airman samples took the AQE and the selected TALENT tests to provide data standardized to the World war II draft-eligible population. Nationwide norms for male 18-yearolds determised for composites of Project TALENT testb selected to correspond to the 4 aptitude indexes Since 1946, Air Force selection tests have been and 12th grade students, as of 1960, have been for distributing scores on AQE that will rank

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the 1960 population. (Author)

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PREDICTION OF SUCCESS IN TECHNICAL TRAINING FROM SELF-REPORT INFORMATION ON EDUCATIONAL ACHIEVEMENT, (U)

Brokaw, Leland D. ;

TDR63 11 63 PRL

MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*APTITUDE TESTS, MILITARY PERSONNEL), (*MILITARY PERSONNEL, APTITUDE TESTS), EDUCATION, STATISTICAL ANALYSIS, MILITARY TRAINING, PSYCHOLOGICAL TESTS, SELECTION, MATHEMATICAL PREDICTION, CORRELATION *FCHNIQUES*

Eucational information about recruits was evaluated inventory provided 53 education variables from the responses to 16 questions. Multiple regression analysis for graduates from 8 techni cal schools (samples from 267 to 820) showed that prediction of technical school success improved significantly when education variables were combined with the aptitude index. The educational information is valid alone, as well as in combination with the aptitude measure, for use in airman selection. for its potential contribution to airman classification. A self-report biographical (Author)

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C AD- 412 850

Prediction of Success in Automatic Data Processing Programming Course.

3

Katz, Aaron ; Helme, William DESCRIPTIVE NOTE: Technial research note, 99 62 00

REPT. NO. APRO-TRN-126

UNCLASSIFIED REPORT

DA-0-J-9560001

PROJ:

ESCRIPTORS: (*MILITARY PERSONNEL, SELECTION), (*APTITUDE TESTS, EFFECTIVENESS), PROGRAMMING, IDENTIFIERS: FIELDATA CLASSIFICATION. DESCRIPTORS:

33

The present study was undertaken, at request of the Signal School, Fort Monmouth, to improve sell ection of enlisted students in the Automatic Data Processing (Fieldata) Programming course tthree Army Classification Battery composites—the previous operational Aptitude Area, the previous operational composite, and the General Technical Aptitude selection to the ADPS Pro gramming course. Results supported a change in the aptitude area of the most substantial validity (r equals .67) of analysis. Calidity was assessed against final Course grades. While the Pro grammers test had selection t the ADPS course from CL to GT with effecevveness as selectors for the course. The programmer trainees, was also included in the effective test combination (r equals .61) for IBM Programmers Aptitude Test, an instrument any single measure in the study, the General Technical (GT) Aptitude Area proved the most Area, a logical alternate were evaluated for used at the Signal Socool for selecting a cutting score of 110.

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16

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20MOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 412 530

ARMY PERSONNEL RESEARCH OFFICE WASHINGTO : D C

Evaluation of Tests to Predict Success in Automotive Maintenance Helper Course.

3

Helme, William H.; Denton, DESCRIPTIVE NOTE: Technical research note, 28P

Barnett ; Anderson, Alan A.; REPT. NO. APRO-TRN-127

DA-0-4-9560001 PROJ:

UNCLASSIFIED REPORT

ESCRIPTORS: (*MILITARY PERSONNEL, CLASSI), (*MAINTENANCE PERSONNEL, PER), (*APTITUDE TESTS, EFFEC), DESCRIPTORS: SELECTION

performance test score, and cadre estimates of future to samples of trainees in the Automotive Maintenance Helper (MOS 630) course at three training centers. The experimental tests were evaluated and compared with operational ACB tests for effectiveness in predicting written test score, Craftsman Apti tude-Construction, and seven self-report person ality measures-were administered performance in an Army assignment. The ACB Automotive In formation Test was the most heavily weighted test in composites predictive of the estimated job success criterion, however, the experi mental Mechanical Knowledge Test and the differ ential classification for mechanical jobs. aspects of suc cess in the course. In predicting lest, suggesting the promise of such tests in Crafts man Aptitude tests were somewhat more affec tive than the ACB Mechanical Aptitude Experimental tests-Mechanical Knowledge (tools), Craftsman Aptitude-Mechanics,

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

PERSONNEL RESEARCH LAB LACKLAND AFB TEX AD- 403 831

SURVEY OF TESTS USED IN AIRMAN CLASSIFICATION,

3

Lecznar, William B.; 316 FEB 63 PROJ: 7717 TASK: 771705

TDR63 5 MONITOR: PRL

UNCLASSIFIED REPORT

DESCRIPTORS: *MILITARY PERSONNEL, *APTITUDE, CLASSIFICATION, HISTORY, RECRUITING, AVIATION PERSONNEL, SELECTION, AIR FORCE. (U) IDENTIFIERS: AIRMAN CLASSIFICATION TEST (U)

3 Aptitude tests have been used since 1948 to aid in selecting and assigning enlistees to the training for which they are best suited by abil ity and education. more effective techniques of personnel selection and By this means the Air Force seeks to reduce the cost of training and realize competent, well-satisfied career airmen. This survey traces the history of airman aptitude testing, tells how effective tests are identi fied, how the tests are assembled, and how the scores are used. The present Airman Qualifying Examination is described and compared with other aptitude test assignment is emphasized, with illustrations from batteries. The role of research in seeking out ongoing studies. (Author)

SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

BUREAU OF NAVAL PERSONNEL WASHINGTON D

3 DEVELOPMENT AND STANDARDIZATION OF FORM 6 OF THE U. S. NAVY LITERACY TEST

SWANSON, LEONARD 62 1V TB62 15 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, IDENTIFICATION, NAVAL PERSONNEL, READING, RECRUITING, STANDARDIZATION, TEST CONSTRUCTION (PSYCHOLOGY)

DEVELOPMENT AND STANDARDIZATION OF FORM 6 OF THE U. S. NAVY LITERACY TEST.

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

3 AD- 293 239 HUMETRICS DIV THIOKOL CHEMICAL CORP LOS ANGELES CALIF DEVELOPMENT OF A JOB SAMPLE PROFICIENCY TEST FOR AN, SPM-9 RADAR TEST SET MAINTENANCE TECHNICIANS

TALLMADGE, G.K. : MURPHY, JOHN V.; 1

REPT. NO. TR62 2 CONTRACT: NONR386900

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *MILITARY PERSONNEL, ACHIEVEMENT TESTS, EFFECTIVENESS, UOB ANALYSIS, MAINTENANCE PERSONNEL, RADAR TRAINERS, TRAINING

3

AN ASSESSMENT OF CAPABILITIES OF FLEET PERSONNEL IN ORDER TO DEVISE, AND REFINE CURRICULUM REQUIREMENTS FOR ON-THE-JOB TRAINING OF MISSILE TECHNICIANS.

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 291 106

PRINCETON UNIV N J

THE STOCHASTIC MODEL OF MENTAL TESTING THEORY AND AN APPLICATION

WOODBURY, MAX A.: > SEP 62

UNCLASSIFIED REPORT

*APTITUDE TESTS, MATHEMATICAL ANALYSIS, DESCRIPTORS: AN AXIOMATIZATION OF MENTAL TEST THEORY IS PRESENTED. THE PRESENTATION DEALS EXPLICITLY WITH THE FOLLOWING CONCEPTS: TRUE SCORE, PARALLEL FORMS, RELIABILITY, VALIDITY, AND COMBINED TEST SCORE.

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 290 545

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PREDICTED SUCCESS OF LOW-APTITUDE AIRMEN

3

GORDON, MARY AGNES; FLYER, ELI S.; 2 62

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *EDUCATION, *RECRUITING, AVIATION PERSONNEL, MATHEMATICAL PREDICTION

who either completed successfully a 4-year enlistment or were discharged for unsuitability or nonadvancement. It was found that a brief composite of aptitude tests and preservice educational level differentiated the successes from This study examines the performance characteristics of a group of low-aptitude airmen who entered the Air Force during the first 6 months of 1956 and recruit from low-aptitude airmen, the additional screening would select those most likely to be of value to the Air Force. (Author) the failures quite well. When it is necessary to

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20MD9 DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

ARMY GENERAL EQUIPMENT TEST ACTIVITY FOR LEE AD- 289 877

\$

3 PREDICTION OF TECHNICAL SCHOOL SUCCESS FROM HOMOGENEOUS BIOGRAPHICAL INVENTORY SCORES

BROKAW, LELAND D.; 62 1V TCB 61 136 EV REPT. NO.

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, CORRELATION TECHNIQUES, LEADERSHIP, LEARNING, MATHEMATICAL PREDICTION, SELECTION, TRAINING

3 data were collected, a short biographical inventory consisting of 4 or 5 of the homogeneous scales would add significantly to the validity of aptitude indexes combining the inventory scores and the aptitude index were significantly more valid than the aptitude inventory keys with the aptitude index proved equally Inventory, was part of the airman classification batteries up to 1959, with separate groups of items keyed for different job areas. This paper reports battery were assorted into 15 clusters on the basis Success were the most generally valid. By multiple regression techniques, it was found that prediction of training school grades was almost as good from a regression equation based on graduates from all 8 schools as from separate equations for schools in each job area. Composite scores valid. Under conditions existing at the time these of high correlations among items of each cluster. now the items of the most recent classification simplified combination of the 3 or 4 most valid The scores for each group (homogeneous keys)
were correlated with success in training for
graduates of 8 Air Force training schools. The derived from the last Airman Classification A personal questionnaire, the Biographical indexes alone (average .43 vs .46); but a keys for Economic Level and Educational Battery. (Author)

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SOMOS DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

SERVICE BUREAU CORP SAN JOSE CALIF AD- 289 620

3 PREDICTION OF AIRMAN SUCCESS FROM RESPONSES TO ITEMS OF THE KELLEY ACTIVITY PREFERENCE REPORT

FRUCHTER, BENJAMIN; ? 62 SON

UNCLASSIFIED REPORT

3 JESCRIPTORS: *APTITUDE TESTS, *ATTITUDES(PSYCHOLOGY), *AVIATION PERSONNEL, *MATHEMATICAL PREDICTION, *SOCIOLOGY, *TEST METHODS DESCRIPTORS:

ITEMS FROM A SELF-REPORT INVENTORY OF PERSONAL BACKGROUND AND ACTIVITY PREFERENCES WERE SELECTED BY VARIOUS METHODS AND COMBINED TO PREDICT SUCCESSFUL COMPLETION OF FIRST-TERM ENLISTMENT. Two samples of airmen (2000 each) were used, each divided into a weighting of valid items was determined on the initial sample; the scoring procedures were cross validated on the second sample. Although optimal item weighting produced higher validity with the initial sample, unit weighting of the most validitems proved as effective in cross validation. analysis and validation purposes. Selection and success group and a nonsuccess group for item Author

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

AD- 288 427

HARVARD UNIV CAMBRIDGE MASS

3 AWARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT

62 1V HSICD17TR14 NGNR186631 REPT. NO.

O'HARA, ROBERT P.; TIEDEMAN, DAVID V.;

UNCLASSIFIED REPORT

3 DESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, INTELLIGIBILITY

AMARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

AD- 288 426 HARVARD UNIV CAMBRIDGE MASS

3 THE SELF CONCEPT IN CAREER DEVELOPMENT: A CONSTRUCT IN TRANSITION

FIELD, FRANK L.; KEHAS, CHRIS D.;

MAR 62 1V TIEDEMAN, DAVID V.; REPT. NG. HSICD24;R21 CONTRACT: NONR186631

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *BEHAVIOR, PROBABILITY

THE SELF CONCEPT IN CAREER DEVELOPMENT: A CONSTRUCT IN TRANSITION.

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 285 842 HUMAN FACTORS RESEARCH INC LOS ANGELES CALIF FACTORS INFLUENCING THE USE OF PRACTICAL PERFORMANCE TESTS IN THE NAVY

AUG 62 1V HARRIS.DOUGLAS;MACKIE,ROBERT R.; REPT. NO. TR703 1 CONTRACT: NONR344400

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, *MILITARY TRAINING, ACCEPTABILITY, ATTITUDES(PSYCHOLOGY), EFFECTIVENESS, NAVAL OPERATIONS, NAVAL PERSONNEL (U)

FACTORS INFLUENCING THE USE OF PRACTICAL PERFORMANCE TESTS IN THE NAVY. ATTITUDES OF SUPERVISORS AND INSTRUCTORS TOWARD DESIRABILITY AND PRACTICALITY OF PERFORMANCE TESTS.

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO9

AD- 285 185 AMERICAN INST FOR RESEARCH WASHINGTON D C CALIBRATION OF AIR FORCE SELECTION TESTS TO PROJECT TALENT NORMS (U)

MAY 62 1V DAILEY, JOHN T.; SHAYCOFT, MARION F.; ORR, DAVID B.; CONTRACT: AF41 657 324

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS

3

%. B5MBD GHLAR 01030 2105

UNCLASSIFIED

20MD9 SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

PSYCHOLOGICAL SERVICE OF PITTSBURGH PA AD- 282 794

3 THE EVALUATION OF SELECTION SYSTEMS: STATEMENT OF THE PROBLEM AND PROCEDURES FOR SOLVING IT

HACKMAN, RAY C.; _ 62 AUG

UNCLASSIFIED REPORT

*SELECTION, ANALYSIS, BEHAVIOR, JOB ANALYSIS, MANAGEMENT ENGINEERING, MOTIVATION, PERSONALITY, PSYCHOLOGICAL TESTS, STIMULATION(PHYSIOLOGY), THEORY (U) DESCRIPTORS:

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 282 429 HARVARD UNIV CAMBRIDGE MASS

DIFFERENTIATION AND INTEGRATION ON CAREER DEVELOPMENT

3

TIEDEMAN, DAVID V.; O' HARA, ROBERT P. 62 180P SICD 23 62 REPT. NO.

UNCLASSIFIED REPORT

33 DESCRIPTORS: *APTITUDE TESTS, *PERSONALITY, ANALYSIS, SELECTION, STUDENTS, SYNTHESIS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT

Career development is conceived as the process of fashioning a vocational identity through differentiation and integration of the personality as generally published as a part of the series entitled 'Harvard Studies in Career Development,' a one confronts the problem of work in living. Some of the research in career development is summarized. Although the research is considered in a broad way, Offers a general summary of research completed and it is not exhaustively considered. The review

83

AD-A058 500 DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA F/6 5/2 PSYCHOLOGICAL TESTS. (U) SEP 78 UNCLASSIFIED DDC/618-78/06 NL 3 OF 6 AD A058500 題 **建建建建** 組山地 illimit [[] [計計計] 地組組 U - Nimber 塘鹽 山土皇 (4)111111

20MOS SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

AD- 282 428

HARVARD UNIV CAMBRIDGE MASS

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT

3

WALSTON, ERNEST B.; DEC REPT. NO.

SICD 21TR18 NONR186631

UNCLASSIFIED REPORT

€£ DESCRIPTORS: *APTITUDE TESTS, *PSYCHOLOGICAL TESTS, ANALYSIS, ATTITUDES(PSYCHOLOGY), EDUCATION, EFFECTIVENESS, PERSONALITY, STUDENTS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT

The autobiography as a counseling aid in vocational development is studied. Its predictive efficiency is compared with test data which are known to be predictive of the college major. Results indicate that reference patterns developed from student autobiographies could be used with other tests as a predictive index of vocational development.

3

UNCLASSIFIED

SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

HARVARD UNIV CAMBRIDGE MASS

VOCATIONAL SELF CONCEPTS AND HIGH SCHOOL ACHIEVEMENT

3

O'HARA, ROBERT P.;

FEB 62 1V REPT. NO. TR19SICD 22 CONTRACT: NONR186631

UNCLASSIFIED REPORT

33 DESCRIPTORS: *APTITUDE TESTS, *EDUCATION, ACHIEVEMENT TESTS, ANALYSIS, INTELLIGENCE TESTS, STUDENTS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT

SELF-RATINGS OF APTITUDES BY HIGH SCHOOL STUDENTS FOUND RELATED TO VOCATIONAL DEVELOPMENTAL PROGRAMS BUT A HIGHER CORRELATION BETWEEN APTITUDE TEST AND ACHIEVEMENT.

UNCLASSIFIED

84

PAGE

Test and grades. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIDGRAPHY

AD- 276 622

۵ ARMY PERSONNEL RESEARCH OFFICE WASHINGTON DEVELOPMENT OF ACB AUTOMOTIVE INFORMATION AND CLERICAL SPEED TESTS, FORMS 3 AND 4

3

DESCRIPTIVE NOTE: Technical research rept.,

Helme, William H. ; Graham, Warren R. ; Anderson, Alan A. ; > 62

REPT. NO. APRO-TRR-1122 PROJ: DA-0-J-9560001 DA-0-J-9560001

UNCLASSIFIED REPORT

3 CLASSIFICATION, DESIGN, MAINTENANCE PERSONNEL, MILITARY PERSONNEL, RELIABLITY, STANDARDIZATION, TEST CONSTRUCTION (PSYCHOLOGY) DESCRIPTORS:

DEVELOPMENT OF NEW FORMS OF TWO ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY CLERICAL SPEED TEST. STANDARDIZED AGAINST WWII ARMY POPULATION IN MENTAL ABILITY, AI-3 AND AI-4 SUFFICIENTLY RELIABLE, AND DIFFERNITATED FROM VERBAL TEST. ACS-3 AND ACS-4 RELIABLE, YET SUBSTANTIALLY SHORTER.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

AD- 271 386

EDUCATIONAL TESTING SERVICE PRINCETON N

AN ANALYSIS OF THE EFFECTS OF REPETITIVE TESTING ON FIGURE MATRIX TEST SCORES

3

HELM, CARL E. CONTRACT: NONR233800 6

UNCLASSIFIED REPORT

NESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, ANALYSIS OF VARIANCE, RELIABILITY, STATISTICAL ANALYSIS DESCRIPTORS:

3

matrix test compared with performance on the last part of the test, and (3) a relation between change in performance from the first part of a figure matrix test to the last part and other measures suggest that the first-half score might be the better measure, in that the correlations between the firstperformance on the first and last part gives negative the first 30 items, while 16.7 items were correctly results by both the correlation and the analysis of higher than the correlations between the secondhalf somewhat higher than either part score, reflecting average, 15.5 items were correctly answered out of half score and class grades tended to be somewhat variance. Negligible correlations were noted between the difference score on the Figure Matrix related to achievement. A correlational analysis greater reliability. Relation between change in practice performance on the Figure Matrix Test, (2) performance on the initial part of a figure preliminary investigation of (1) the effect of and an analysis of variance were made. On the answered out of the second 30 items. Results score and grades. The total score correlated An analysis of existing data was made as a

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

EDUCATIONAL TESTING SERVICE PRINCETON N .:

A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE

FRENCH, JOHN W.: CONTRACT: NONR221400 >

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *MATHEMATICAL PREDICTION, *PERSONALITY TESTS, COMPUTERS, STATISTICAL ANALYSIS (U)

3 derived. The method permitted the speed necessary for the search, but allowed distortion due to skewness in the distributions of the variables and of correlation between the moderator variable and either machine is required or a more time-taking, expensive based on subjects standing low, middle, and high on predictors. The indices resulted in a small number of situations where moderator variables were Searching for moderator variables in massive data was carried out with the IBM 650. Indices to represent validities for all possible predictors Predictors and criterion scores were paired after both had been trichotomized; this gave 3 x 3 contingency tables from which the indices were subjects totaling 1297 students were used with 42 unsatisfactory due to distortion. Either a larger the predictor or the criterion. Three groups of computational procedure is necessary. One clear moderator variable was revealed: visual spatial ability interferes with the correlation between interest in English and grades in English. operating effectively. The relationship between the indices and product-moment correlations was all possible moderator variables were computed.

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AD- 269 527

TEST-62

DEVELOPMENT OF THE AIR FORCE PRECOMMISSION SCREENING AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB DHID

3

1V VALENTINE, LONNIE D. JR.; TN61 146 2 ASD 61 MONITOR:

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, *NAVIGATORS, DESIGN, SELECTION, STATISTICAL ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY), TRAINING

aptitude sample of basic airmen demonstrated a suitable distribution of scores and high correlations navigator training and selection of airmen tor the Air Force Academy Preparatory School. Results of a tryout of the new test with a highequivalent forms of five parts of the Air Force between corresponding parts of the new test and Officer Qualifying Test: verbal, quantitative, general science, mechanical, and scale reading. Sections of the test were constructed as short earlier form for screening of applicants for Precommission Screening Test replaces an The 1962 revision of the Air Force AFOQT. (Author)

20MOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

ILLINDIS UNIV URBANA 267 799 AD-

VALIDATION OF AIR FORCE CLASSIFICATION TESTS AGAINST ACADEMIC GRADES IN AN AVIATION HIGH SCHOOL

HUMPHREYS, LLOYD G.; TN61 51 CONTRACT: AF41 657 279
MONITOR: ASD TME-

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, CLASSIFICATION, RELIABILITY, SELECTION DESCRIPTORS:

series of reports detailing the longrange validity of classification test scores with course grades were at a unique opportunity for collection of predictor and against individual course grades in an aviation high criterion information for the same individuals over an extended period of time. (Author) aviation-mechanic curriculum somewhat less reliable numerical content, as well as the use of keyed biographical data items, may improve prediction in levels of reliability, with those in the terminal Air Force selection tests for technical academic criteria. The Aviation High School provides a usefully high level. Highest correlations with curriculum. Most of the multiple correlations of and correlations with AGCT still lower. For selection purposes the Air Force classification tests do a better job than the AGCT general intelligence test. The Air Force tests that have the highest utility for selection are Air Force aptitude indexes were somewhat lower, this school situation. This is the first of a school. Course grades showed low to moderate than grades in the pre-engineering technical Air Force classification tests and the Army Arithmetic Reasoning, Physics, and Pattern General Classification Test were validated Comprehension. Additional mechanical and

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

AD-

DUNLAP AND ASSOCIATES INC SANTA MONICA CALIF

DEVELOPMENT OF A JOB SAMPLE PROFICIENCY TEST FOR GUIDED MISSILEMEN MAINTAINING THE MARK 15 MOD O TARTAR MISSILE

3

BLANCHARD, R.E. CONTRACT: NONR297800 2 9 NO つ

UNCLASSIFIED REPORT

33 DESCRIPTORS: *APTITUDE TESTS, *GUIDED MISSILE PERSONNEL, *MAINTENANCE PERSONNEL, ACHIEVEMENT TESTS, EFFECTIVENESS, NAVAL PERSONNEL, TEST CONSTRUCTION (PSYCHOLOGY), TRAINING (IDENTIFIERS: TARTAR

3 basis of information obtained during tryout, and on the results of tryout data analysis. Two complete administration. Research findings relative to utilization of the test, developing proficiency tests on new equipment, and recommendations for will probably require approximately eight hours for missile troubleshooting subtests were added. On the revised form the 28 subtests were ordered into eight groups on the basis of functional similarity. The revised test has three subtest alternates and A preliminary proficiency test was revised on the one parallel group of subtests. The revised test preliminary subtests were omitted, and five new further research are discussed. (Author)

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

AD- 266 865

3 AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO DEVELOPMENT OF SCREENING AND SELECTION TESTS FOR MOMEN

SEP MONITOR:

TN61 54 61 ASD

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *MILITARY PERSONNEL, *FEMALES, CLASSIFICATION, DESIGN, SELECTION, STANDARDS, TEST CONSTRUCTION (PSYCHOLOGY)

 $\widehat{\Xi}$ the reference test for standardization of both tests. In the standardization testing, a form of WEST was always administered first, but counterbalanced MEST and effective prediction of scores used by the Army and Air Force in classifying enlisted between these forms and earlier forms of AFWST and limits and a revised conversion table, was used as order of administration of AFWST and the reference This report details the development and standardization of neplacement forms of the Armed Forces Women's Selection Test and the Women's Enlistment Screening Test.
Classification Test R-5, with extended time Intercorrelations indicate close relationships test was used to stabilize practice effect. personnel. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

TEST RESEARCH SERVICE BRONXVILLE N Y AD- 266 864

MEASUREMENT OF MENTAL SKILLS EMPLOYED IN ARITHMETIC REASONING TESTS

3

DAVIS, FREDERICK B.;

TR61 99 CONTRACT: AF41 657 232 MONITOR: ASD TPE1

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, *REASONING, DESIGN, MEASUREMENT, SELECTION, STATISTICAL ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY)

PAGE

SEARCH CONTROL NO. ZOMOS

DDC REPORT BIBLIOGKAPHY

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSO" AFB OHIO

FACTORIAL STRUCTURE OF BASIC TRAINING PERFORMANCE VARIABLES

TN HOLDREGE, FRED E.;

MONITOR:

UNCLASSIFIED REPORT

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

UNCLASSIFIED

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

9 APTITUDE AND PERFORMANCE DATA OF FLIGHT AND NAVAL AVIATION OFFICER STUDENTS BY PROCUREMENT SOURCE

 $\widehat{\Xi}$

AMBLER, ROSALIE K .: >

AUG 61 1 NO. SR61 9 REPT. NO. UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, FLIGHT, NAVAL PERSONNEL, SELECTION, TRAINING

pre-flight performance and pre-flight attrition where data concerning differences in student quality among the various procurement sources for the flight and The purpose of this report is to provide reference Naval Aviation Officer (NAO) programs.
Based upon a composite ranking of aptitude,
performance, and attrition, the flight students
procured from USN/NROTC, the Naval Academy,
USCG, and USMC sources were superior. Those
flight students procured from USNR/DP, USMCR,
MarCad, and AOC sources were poorest with
respect to their composite ranking. The AOC type NAO's were superior to the AOC NAO's in average average pre-flight performance; however, the OI NAO students surpassed OI type NAO students in In the areas of NAO Basic School performance.

3

possible, the flight students were generally superior to NAO's. MarCads, AOC flight students, and

AOC NAO students had excessively high medical

failure rates. (Author)

Comparisons between NAO and flight students were

DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, *FACTOR ANALYSIS, *PERSONALITY TESTS, CLASSIFICATION (U)

3 tactical instructor ratings and objective measures of aptitude, education, and age. The new analysis duplicates the first four factors of the previous been previously factor analyzed into six factors, only four of which were interpretable. A new analysis was made with six added variables based on Agreeableness, Surgency, Motivation for Military Life). By the addition of age and the aptitude measure to the analysis, the remaining two factors of the new analysis can be interpreted Peer nominations of basic airmen on 25 traits had as Maturity and Intelligence. (Author) General Rating Factor, analysis

PAGE

SEARCH CONTROL ND. ZOMO9 DOC REPORT BIBL IOGRAPHY

ADJUTANT GENERAL'S OFFICE (ARMY) WASHINGTON D C

3 HELICOPTER PILOT TRAINÉES--PERSONALITY CONSTRUCTS DEVELOPMENT OF EXPERIMENTAL SELECTORS FOR ARMY

ROSENBERG, NATHAN; SKORDAHL, DONALD M.: ANDERSON, ALAN A.;

UNCLASSIFIED REPORT

3 FESCRIPTORS: *APTITUDE TESTS, *LEADERSHIP, *PERSONNEL, *PILOTS, *SELECTION, *TRAINING, BEHAVIOR, DESIGN, EFFECTIVENESS, HELICOPTERS, IDENTIFICATION, DESCRIPTORS: PERSONALITY

Ξ Anmy Primary Helicopter School. The effectiveness of 57 construct keys and of one overall judgment key as predictors of helicopter pilot rate of attrition during training, four personality instruments were developed, designed primarily to pnedict leadership performance in operational units. Data were obtained on 242 helicopter pilot trainees constituting six entering classes of the aspects, successful completion of preflight training selection of helicopter pilot trainees and to reduce and leadership ranking by peers were considered most As part of a long-range research effort to improve training success was estimated and the validity of the numerous construct keys was assessed against various aspects of pilot training. Of these predictable by the personality measures.

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20MOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 265 459

ADJUTANT GENERAL'S OFFICE (ARMY) WASHINGTON D SELECTING THE FIRST-LINE SUPERVISOR

3

BIRNBAUM, ABRAHAM H.: ORLEANS, ISAAK ? D.; DEJUNG, JOHN;

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *LEADERSHIP, *PERSONNEL, *SELECTION, BEHAVIOR, DESIGN, EFFECTIVENESS, IDENTIFICATION, TEST CONSTRUCTION (PSYCHOLOGY)

appeared to be a more effective predictor in determining the individuals who should be promoted to average natings of supervisory skills by supervisors old and new tests were validated on a sample of 623 study was undertaken to provide for alternate forms identification of potentially good supervisors. The effect iveness of both the old and new tests on an basis of research findings, it was concluded that is designed for use in selecting Wage Board firstline supervisors. The battery consists of three measures—the Basic Ability Test, a test of mental capacity, the Supervisory Practices Test, a test of Supervisory judgment, and the Supervisor Performance Report, a descriptive phrase test filled out by the supervisor who deserves the candidate in a tryout job. In response to a requirement, the present research Battery, implemented operationally in July 1959, developed for the Supervisor Performance Report Supervisory Practices Test has utility for the Armywide basis. Using a concurrent design, the Mage Board supervisors against a criterion of for which a new form was not required. On the of the battery components and to evaluate the and peers. New standardized score norms were Supervisor Performance Report, however, neither the Basic Ability Test nor the The Army Civilian Supervisor Selection supervisory positions. (Author)

PAGE

DDC REPORT BIBLIDGRAPHY

AD- 263 917 NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

THE RELATIONSHIP OF PRE-FLIGHT SCHOOL GRADES TO SUCCESS IN THE FLEET

3

AIR FORCE ACADEMY SELECTION VARIABLES AS PREDICTORS OF SUCCESS IN PILOT TRAINING

1V VALENTINE, LONNIE D. JR.; TN61 52

61 ASD

MONITOR:

UNCLASSIFIED REPORT

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

SEARCH CONTROL NO.

DOC REPORT BIBLIDGRAPHY

AD- 263 982

UNCLASSIFIED

3

BERKSHIRE, J.R.; SHOENBERGER, R.W.; JUL 61 1V REPT. NO. SR61 8

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, *EFFECTIVENESS, *NAVAL PERSONNEL, OFFICER PERSONNEL, TESTS

3

The data contained in this report show that there is a definite relationship between fleet success, both as a pilot and as an officer, and performance in preflight school courses. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMC9

33

DESCRIPTORS: *APTITUDE TESTS, *PSYCHOLOGICAL TESTS, *TRAINING, EFFECTIVENESS, FLIGHT, MATHEMATICAL PREDICTION, PLAN POSITION INDICATORS, SELECTION, TESTS
IDENTIFIERS: AIR FORCE ACADEMY

SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA AD- 263 915

3 THE VALIDITY OF THE OFFICER-LIKE-QUALITY MEASURES USED IN THE U. S. NAVAL SCHOOL, PRE-FLIGHT

DOLL, R.E.; BERKSHIRE, J.R.; ? REPT. NO. SR61 6 61

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *AVIATION PERSONNEL, *NAVAL PERSONNEL, EFFECTIVENESS, OFFICER PERSONNEL, SELECTION

The purpose of this investigation was to determine the relative validities of the components of the preflight officer-like-quality grade (OLQ) and the weights which, when applied to these components, would yield the most valid composite grade. The current procedure of using plus and minus factors for subtraction for cadet rank, activities, and demerits. peer rating, average instructor rating, and average cadet rank, activities, and demerits makes the OLQ military rating, respectively, would increase the validity of the OLQ grade. The average OLQ grade should not be modified by addition or grade less accurate as a predictor of subsequent attrition. Weightings of .4, .2, .4 for average (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMO9 DOC REPORT BIBLIOGRAPHY

ADJUTANT GENERAL'S OFFICE (ARMY) WASHINGTON D

.

3 VALIDATION OF THE ARMY FIXED-WING APTITUDE BATTERY AGAINST SUCCESS IN ARMY FLIGHT TRAINING

ROSENBERG, NATHAN; KAPLAN, HARRY; REPT. NO. HFRB TRN 112 SKORDAHL, DONALD M.:

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *MILITARY PERSONNEL, *MILITARY TRAINING, *PILOTS, ANALYSIS, CLASSIFICATION, EFFECTIVENESS, FLIGHT, SELECTION, TRAINING

3 were analyzed in relation both to failure to complete was administered to 1109 men in classes entering the appropriate to the Army's training requirements for flight training and to failure by reason of flying a given year. The effect of weighting the tests by a multiple correlation procedure was also studied. The validity coefficient of .41 indicates that the To effect improvement in selection of trainees for the Army Aviation Fixed-Wing Training Program, a battery of HFRB tests, in operational use since 1956, was further validated against a criterion of success in the Primary Flight information useful in establishing cutting scores AFWAB is a moderately effective instrument for selecting trainees for Army-Fixed-Wing flight training. Each of the five component tests also had significant correlation (a range from .15 to effective as those obtained by more complicated scores based on unit-weighted subtests were as deficiency. Results were examined to obtain Training Course. The Army Fixed-wing Aptitude Battery (AFWAB), based on the Air Force Officer Qualification Test (AFOQT), .34) with the pass-fail criterion. Battery FTP at Camp Gary during 1957. AFWAB scores statistical weighting.

63

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SOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

ADJUTANT GENERAL'S OFFICE (ARMY) WASHINGTON D AD-

U

VALIDATION OF ARMY FIXED-WING APTITUDE BATTERY AGAINST SUCCESS IN ROTC FLIGHT TRAINING

3

ROSENBERG, NATHAN; SKORDAHL, DONALD M.; REPT. NO. FRB TRN 111 2 KAPLAN, HARRY; 61 MAY

UNCLASSIFIED REPORT

**ESCRIPTORS: *APTITUDE TESTS, *CLASSIFICATION, **PERSONNEL, ANALYSIS, ARTILLERY ROCKETS, CARGO VEHICLES, FLIGHT, MILITARY TRAINING, SELECTION, SIMULATION, TESTS, (U) 3 DENTIFIERS: 7.62-MM ORDNANCE ITEMS, M-386 ROCKET LAUNCHERS(762-MM) DESCRIPTORS:

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY AD- 257 519
NAVAL AIR DEVELOPMENT CENTER JOHNSVILLE PA AVIATION
MEDICAL ACCELERATION LAB

3 COMPARATIVE EVALUATION OF A STANDARD FACE CURTAIN AND AN EXPERIMENTAL D-RING LOCATED ON THE SEAT FRONT AS MODES OF ACTUATING EJECTION DURING EXPOSURE TO ACCELERATION; LETTER REPORT CONCERNING

HILL, J. H.; BROWN, J. L.; MA 3 3585 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: *APTITUDE TESTS, *EJECTION SEATS,
ACCELERATION, AIRCRAFT EQUIPMENT, EFFECTIVENESS,
EJECTION, GONDOLAS, HUMAN FACTORS ENGINEERING, LEARNING,
REACTION (PSYCHOLOGY), REFLEXES, TESTS
(IDENTIFIERS: D RING DESCRIPTORS:

procedure) are presented for the two ejection controls under each orientation as a function of the G level. The action times, however, are consistently shorter for the D-ring for all the orientations of acceleration. It may be concluded that for ease of access during exposure to sustained accelerations in the orientations which were results are presented graphically in two forms. The standard face curtain and an experimental D-ring reaction time (the time required to initiate the ejection procedure) and the harmonic mean action time (the time required to perform the ejection investigated, an ejection control located on the located on the seat front as modes of actuating unsuccessful attempts to eject are considered together in one distribution. The harmonic mean ejection during exposure to acceleration. The time measures for both the successful and the front of the ejection seat is superior to the A comparative evaluation is presented of a standard face curtain.

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

ILLINOIS UNIV URBANA 257 428 AD-

3 EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM

HUMPHREYS, LLOYD G.: CONTRACT: AF41 657 279

UNCLASSIFIED REPORT

DESCRIPTORS: *ACHIEVEMENT TESTS, *APTITUDE TESTS, *INTELLIGENCE TESTS, *PSYCHOLOGICAL TESTS, RELIABILITY, STATISTICAL ANALYSIS, TESTS, TRAINING (U)

3 indexes reflected the emphasis in this high school on mechanical training. This was interpreted as a joint effect of the nature of the tests and the in equipercentile conversion tables for the aptitude This study examines the effect of training differences on scaling new forms of personnel tests for equivalence to previous forms. Three classes of a technical high school were given the test against airman population, showing that findings from these Classification Battery. The ability range of these students corresponded closely to that of the input. Differences between sophomores and seniors nature of this particular high school curriculum addition, they took a recent form of the Airman which Air Force classification tests hav: been scaled, the General Classification Test. In samples can be generalized to the Air Force

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SEARCH CONTROL NO. ZOMO9 DDC REPORT BIBLIOGRAPHY

BUREAU OF NAVAL PERSONNEL WASHINGTON D

DEVELOPMENT OF A NON-COGNITIVE BATTERY: PREDICTION OF PERFORMANCE ABOARD NUCLEAR POWERED SUBMARINES

KIPNIS, DAVID; GLICKMAN, ALBERT S.; 1 TB61 5 FEB 61 REPT. NO. T

UNCLASSIFIED REPORT

3 DESCRIPTORS: *APTITUDE TESTS, *SUBMARINE PERSONNEL, EFFECTIVENESS

distinguished men categorized as Below Average from men categorized as Average. Best predictions School were also highly predictive of sub quent performance evaluations aboard a nuclear powered A battery of non-cognitive tests was used in an attempt to predict duty performance evaluations aboard nuclear powered submarines. These tests were of evaluations of technical parformance. Academic grades at Basic Nuclear Power submarine. (Author)

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PAGE

SOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

BUREAU OF NAVAL PERSONNEL WASHINGTON D C 255 867 AD-

3 ocs ANALYSIS OF RELATIVE WEIGHTS ASSIGNED TO PREDICTORS AND OCS COURSE GRADES

LAGAIPA, JOHN J.; ? TB61 3 UAN 61 REPT. NO.

UNCLASSIFIED REPORT

*OFFICER 33 DESCRIPTORS: *APTITUDE TESTS, *NAVAL PERSONNEL, PERSONNEL, EFFECTIVENESS, LEADERSHIP, SELECTION IDENTIFIERS: OFFICER CANDIDATE SCHOOLS DESCRIPTORS:

3 selection variables did not predict on-the job success determining whether proportionately greater weight ought to be given to Military Aptitude, as compared to academic subjects, in determining final scores in the year after graduation. Furthermore, note of the DCS academic course grades contributed This is a report on the contributions: (1) of current OC selection measures to the prediction of duty performance of officers in sea billets. Thus, (2) of OCS grades to the prediction of subsequent duty performance. Validity data were obtained on OCS Classes 34 and 35. One year after graduation, evaluations of duty performance were to the prediction of subsequent duty performance. DCS success and subsequent duty performance, and as measured by the Fitness Reports or the JOAC However, Military Aptitude ratings did predict obtained, using Fitness Reports and the Junior authoritative judgment should be expressed in Officer Activity Checklists. The OC class standing. (Author)

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PREDICTION OF OCS ACADEMIC GRADES AND POST-OCS PERFORMANCE OF JUNIOR OFFICERS WITH A BATTERY OF SPEEDED TESTS

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WOLLACK, LEGNARD; GUTTMAN, I SAIAH; 2 TB61 2 9 REPT. NO.

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*OFFICER DESCRIPTORS: *APTITUDE TESTS, *NAVAL PERSONNEL, PERSONNEL, EFFECTIVENESS, LEADERSHIP, SELECTION IDENTIFIERS: OFFICER CANDIDATE SCHOOLS

g respectively. Results showed that speeded tests did not consistently add to the prediction of OCS academic grades. The sample for the second sample for the first criterion consisted of 132AND Officers. Ten experimental speeded tests were used reference tests which served as control variables. only to a moderate extent. None of the tested variables predicted performance at shore billets. the fleet billet group showed that speeded tests not predict postOCS performance. A non-speeded 273 officer candidates in OCS classes 37 and 38, variable, Peer Ratings, did predict OFR, albeit This study tested the hypothesis that a speed factor may be used to predict (1) DCS academic criterion was divided into two groups--junior officers in fleet billets (N=108) and those in shore billets (N=81). Results of the study for grades, and (2) post-OCS performance of junio. as predictors, along with three experimental academic grades, and the second consisted of There were two criteria. The first was OCS Officer Fitness Reports (OFR) and Junior Officer Activity Checklists (JOAC). The

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PRELIMINARY VALIDATION OF OMNIBUS TEST BATTERY: I. SOIL CONSERVATIONISTS, PRS-67-2 AD- 649 650

*DUNLAP AND ASSOCIATES INC SANTA MONICA CALIF DEVELOPMENT OF A JOB SAMPLE PROFICIENCY TEST FOR GUIDED MISSILEMEN MAINTAINING THE MARK 15 MOD O TARTAR MISSILE AD- 267 603

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Development of the Armed Services Vocational Aptitude Battery: Forms 8, 9, and 10 * * (AFHRL-TR-77-19) AD-A039 270 *EDUCATIONAL TESTING SERVICE PRINCETON * *

REPORT ON THE VALIDATION OF TESTS AGAINST FIRST AND SECOND TERM GRADES AND QUALITY-POINT RATIOS AT THE U.S. NAVAL POST-GRADUATE SCHOOL (JULY 1948 TESTING)

AD- 072 201

JULY 1948 FOR PREDICTING FIRST YEAR AVERAGE GRADES AT THE U.S. NAVAL VALIDITIES OF TESTS GIVEN IN POSTGRADUATE SCHOOL AD- 072 204

and Performance on Mechanical Jobs. Relationship between Test Scores Sex Differences in the AD- 154 623 A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA AD- 271 148

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REPETITIVE TESTING ON FIGURE MATRIX TEST SCORES AN ANALYSIS OF THE EFFECTS OF AD- 271 386 PREDICTION OF SECOND-YEAR GRADE-POINT AVERAGES AT THE U. S. NAVAL POSTGRADUATE SCHOOL. AD- 709 794

Investigation of a Creativity ETS-RB-73-12 Dimension. AD- 756 193

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TESTS FOR NAVAL OFFICER SELECTION.

I. ANALYSIS OF U. S. NAVAL ACADEMY
CRITERION OF APTITUDE FOR SERVICE. DEVELOPMENT OF PERSONALITY RB-51-7 AD- 710 018

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4D- 765 843

SOME APPLICATIONS OF PROCEDURES FOR ALLOCATING TESTING TIME. AD- 682 223 RB-69-1

TESTS FOR NAVAL OFFICER SELECTION.

I. ANALYSIS OF U. S. NAVAL ACADEMY
CRITERION OF APTITUDE FOR SERVICE. DEVELOPMENT OF PERSONALITY * * * AD- 710 018

Toward the Establishment of Noncognitive Factors through Literature Search and Interpretation. AD- 765 843

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TRAFFIC TRAINEE APTITUDE-TEST MEASURES INVOLVING NAVY, MARINE CORPS AND FAA CONTROLLERS, A COMPARATIVE STUDY OF AIR FAA-AM-68-14

Chronological Age and Aptitude Test Measures of Advanced-Level Air Traffic Control Trainees. The Relationship between FAA-AM-71-36 40- 733 830

A Proposed New Test for Aptitude Screening of Air Traffic Controller Applicants, FAA-AM-72-18 AD- 746 058

Tests for Air Traffic Controllers, Development of New Selection FAA-AM-77-25 AD-A049 049

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Effects of Anxiety Type and Item Difficulty Sequencing on Mathematics Aptitude Test CAI-TM-46 Performance 4D- 755 723

ATHENS DEPT OF *GEORGIA UNIV PSYCHOLOGY Acquisation of Pursuit Tracking

Skill under Extended Training as a Joint Function of Sex and Initial (AFOSR-TR-73-0007) Ability,

*HARVARD UNIV CAMBRIDGE MASS * * *

AD- 755 016

AWARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT HSICD17TR14 AD- 288 427

THE SELF CONCEPT IN CAREER DEVELOPMENT: A CONSTRUCT IN HSICD24TR21 TRANSITION AD- 288 426

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT SICD 21TR18 AD- 282 428

DIFFERENTIATION AND INTEGRATION ON CAREER DEVELOPMENT SICD 23 282 429

VOCATIONAL SELF CONCEPTS AND HIGH SCHOOL ACHIEVEMENT TRI9SICD 22 AD- 282 421

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APTITUDE TESTS SCORES, PERFORMANCE IN SUBMARINE SCHOOL, AND SUBSEQUENT DETERMINED BY RATINGS AND TESTS - RESEARCH ON THE DEVELOPMENT OF INTERRELATIONSHIPS BETWEEN SHIPBOARD PERFORMANCE MEASURES PERFORMANCE IN SUBMARINES AS 4D- 045 27

PRACTICAL PERFORMANCE TESTS IN THE FACTORS INFLUENCING THE USE OF TR703 1

*HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

Effects of Speech Rate, Selection Difficulty, Association HUMRRO PROFESSIONAL PAPER-1-73 Strength and Mental Aptitude on Learning by Listening, AD- 762 692

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Aptitude Level and Performance on Intramodal and Intermodal Form Discrimination Tasks. HUMRRO-TR-73-7 AD- 758 874

PROFICIENCY TEST FOR AN SPM-9 RADAR *HUMETRICS DIV THIOKOL CHEMICAL CORP DEVELOPMENT OF A JOB SAMPLE LOS ANGELES CALIF TP62 2

TEST SET MAINTENANCE TECHNICIANS

AD- 293 239

SAVOY AVIATION RESEARCH LAB *ILLINOIS UNIV

Basic Attention Measures as Predictors of Success in Flight ARL-74-14/AFOSR-74-9 (AFDSR-TR-75-0388) 4D-A006 385 Training.

Capacity by Manipulation of Dual-The Measurement of Operator ARL-74-21 / AFOSR-74-15 (AFDSR-TR-75-0409) Task Demands.

*ILLINDIS UNIV URBANA

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM

VALIDATION OF AIR FORCE CLASSIFICATION TESTS AGAINST ACADEMIC GRADES IN AN AVIATION HIGH SCHOOL (ASD-TN61 51)

AD- 267 799
*ILLINDIS UNIV URBANA TRAINING
RESEARCH LAB

TR-13 CURRICULAR AND SPECIFIC TRANSFER TO PROBLEM SOLVING ABLLITY. AD- 428 268 *INDIANA UNIV BLOCHINGTON INST EDUCATIONAL RESERCH

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A NEW APTITUDE-FOR-SERVICE TEST
(MULTIPLE CHOICE SENTENCE
COMPLETIONS)
AD- 162 819

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SELECTION TESTS FOR ARMY
OPERATORS OF HEAVY AND LIGHT MOTOR
VEHICLES
AD- 045 997

PRS 981PRS R 981
APTITUDE TESTS FOR ARMY MOTOR
VEHICLE OPERATORS

AD- 006 957

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Aptitude Battery (ASVAB) Form 5:
High School Norming and
Standardization.
(AFHRL-TR-76-79)
AD-A034 323

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(AFOSTR-75-1347)

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for the Armed Services Vocational
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AD- 772 626

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AD 751 030

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AD- 757 788

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Administered Stradaptive Ability A Study of Computer-* * * RR-75-4 AD-A018 758 Testing.

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Theory Approach AD- 765 732

Performance in the F-4 Aircraft, AD- 764 866 The Prediction of Pilot NAMRL-1186

*NAVAL AIR DEVELOPMENT CENTER
JOHNSVILLE PA AVIATION MEDICAL
ACCELERATION LAB * * *

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A PRELIMINARY EVALUATION OF * STB-70-3

AD- 721 075

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RESPONSES TO A TEST OF VOCATIONAL GEOGRAPHICAL DIFFERENCES IN SRR-66-10 INTERESTS. AD- 626 612

AN EVALUATION OF A SHORT FORM • SRR-67-2

OF THE RADIO CODE APTITUDE TEST AD- 639 224

VALIDATION OF THE 1961 NAVY COLLEGE APTITUDE TEST. STB-65-17 AD- 619 169

VALIDATION OF THE 1962 NAVY COLLEGE APTITUDE TEST. STB-66-6 AD- 619 990

STATES NAVY CLERICAL APTITUDE TEST, INVESTIGATION OF THE UNITED * * * STB-66-7 AD- 620 668

VALIDATION OF THE 1963 NAVY COLLEGE APTITUDE TEST. STB-67-4 AD- 638 680 *NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

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LIKE-QUALITY MEASURES USED IN THE U. S. NAVAL SCHOOL, PRE-FLIGHT THE VALIDITY OF THE OFFICER-AD- 263 915

THE RELATIONSHIP OF PRE-FLIGHT SCHOOL GRADES TO SUCCESS IN THE SR61 8

SR61 9 AD- 263 917

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SURVEY OF TESTS USED IN AIRMAN CLASSIFICATION, PRL-TDR63 5 AD- 403 831

PREDICTION OF SUCCESS IN TECHNICAL TRAINING FROM SELF-REPORT INFORMATION ON EDUCATIONAL PRL-TDR63 11 ACHIEVEMENT AD- 414 888

APTITUDE INDEXES WITH CORRESPONDING TALENT TEST COMPOSITES, COMPARISON OF AIR FORCE PRL-10R63 18 AD- 420 555

VALIDITY OF AIRMAN QUALIFYING EXAMINATION, FORM F, FOR TECHNICAL FRAINING GRADES-1961. PRL-TDR63 20 AD- 426 756

PREDICTION BY CAREER FIELD OF FIRST TERM AIRMAN PERFORMANCE FROM SELECTION AND BASIC TRAINING PRL-TDR64 5 VARIABLES. 4D- 600 781

DEVELOPMENT AND STANDARDIZATION OF THE AIR FORCE OFFICER QUALIFYING TEST-64, PRL-TDR64 6

PRL-TDR64 17

APTITUDE INDEXES FOR HIGH-SCHOOL-AGE BOYS,
AD- 605 821

PRL-TR-65-8
PERFORMANCE ON AJRMAN
QUALIFYING EXAMINATION BY REGIONAL
AREAS AND BY SEX,
AD- 617 335

PRL-TR-65-10 AGE NORMS FOR HIGH SCHOOL SENIORS AND AIR FORCE TRAINING GROUPS, AD- 619 346 PRL-TR-65-12
DEVELOPMENT AND PRELIMINARY
VALIDATION OF THE ELECTRONIC DATA
PROCESSING TEST-63,

PRL-TR-67-5
DEVELOPMENT AND STANDARDIZATION
OF AIRMAN QUALIFYING EXAMINATION66.

PRL-TR-67-6
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FOR INCREASING THE VALIDITY OF THE
AIRMAN QUALIFYING EXAMINATION FOR
THE CLASSIFICATION OF BASIC AIRMEN
AD- 661 997

PRL-TR-67-7 CCNVERSION TABLES FOR AIRMAN QUALIFYING EXAMINATION AND EMPLOYEE APTITUDE SURVEY SCORES,

*PRINCETON UNIV N J

A SYNTHESIS OF TWO FACTOR
ANALYSIS OF INTERMEDIATE ALGEBRA
AD- 103 459

THE STOCHASTIC MODEL OF MENTAL TESTING THEORY AND AN APPLICATION AD- 291 106

*PSYCHOLOGICAL SERVICE OF PITTSBURGH

THE EVALUATION OF SELECTION
SYSTEMS: STATEMENT OF THE PROBLEM
AND PROCEDURES FOR SOLVING IT
AD- 282 794

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Based upon the Position Analysis
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4

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2 versus ASVAB Form 5.
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6

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MEASUREMENT OF MENTAL SKILLS
EMPLOYED IN ARITHMETIC REASONING
TESTS
(ASD-TR61 99)
AD- 266 864

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CLASSIFICATION TEST FORMS 5 AND 6.

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PROJECT ON APTITUDES OF HIGH-AD- 605 131

*UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES PSYCHOLOGICAL LAB

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*WASHINGTON UNIV SEATTLE

THE CONTRIBUTION OF INTEREST TEST SCORES TO DIFFERENTIAL ACADEMIC PREDICTION AD- 141 840

RELATIONS AMONG M SETS OF VARIABLES AD- 233 506

0-12 UNCLASSIFIED

AD- 682 223

A Word Knowledge Item Pool for Adaptive Ability Measurement. * *ADAPTIVE SYSTEMS

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM*

*ACHIEVEMENT TESTS

AN ANALYSIS OF THE EFFECTS OF REPETITIVE TESTING ON FIGURE MATRIX

TEST SCORES*

AD- 271 386

DEVELOPMENT OF NEW FORMS OF TWO

ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY

An Empirical Investigation of Computer-administered Pyramidal Ability Testing. *

An Empirical Comparison of Two-Stage and Pyramidal Adaptive Ability Testing.* AD- 783 553

AD-A006 733

CLERICAL SPEED TEST.
STANDARDIZED AGAINST WWII ARMY
POPULATION IN MENTAL ABILITY, AI-3
AND AI-4 SUFFICIENTLY RELIABLE,
AND DIFFERENTIATED FROM

VERBAL TEST. ACS-3 AND ACS-4 RELIABLE, YET SUBSTANTIALLY

Applications of Computerized Adaptive Testing.* *ADAPTIVE TRAINING AD-A038 114 *AGING(PHYSIOLOGY)

AIR TRAFFIC CONTROLLERS

The Relationship between
Chronological Age and Aptitude Test
Measures of Advanced-Level Air
Traffic Control Trainees.* AD- 733 830

PRACTICAL PERFORMANCE TESTS IN THE NAVY. ATTITUDES OF SUPERVISORS AND INSTRUCTORS TOWARD DESIRABILITY AND

FACTORS INFLUENCING THE USE OF

PRACTICALITY OF PERFORMANCE TESTS.

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Ability Estimation and Item Calibration Using the One and Three Parameter Logistic Models: A

comparative Study.*

10-A047 943

AMARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT.

ND- 288 427

Performance Tests for Prediction of Aerospace Ground Equipment Course Validation of a Battery of *AIR FORCE PERSONNEL AD- 774 586 Grades. *

Measured Mental Ability, Service

EFFECTIVENESS

School Achievement and

Performance. *

10- 720 359

LEARNING

AD- 767 578

Multiple-Purpose Prediction Systems in the Absence of External VARSEL: Variable Selection for AD-A025 328

A Model for Psychometrically

Distinguishing Aptitude from

Ability.*

D- 751 030

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SOME APPLICATIONS OF PROCEDURES

RELIABILITY

FOR ALLOCATING TESTING TIME. .

Methodology for Entry into Medical Technical Training Courses.* AD-A048 119

Screening Test Battery for Dental Laboratory Specialist Course: Development and Validation.*

AD-A048 120

Development and standardization of the Air Force Officer Qualifying AD- 600 782 APTITUDE rest64

first term airman performance selection and basic training Prediction by career field APTITUDE TESTS

Selection Test Standards for Negro Suitability of Using Common DEMOGRAPHIC DIFFERENCES IN APTITUDE TEST PERFORMANCE,* variables. AD- 710 618 AD- 600 781

Aptitude Benchmark Scales for the Mechanical and Electronics Career Task Difficulty and Task and White Airmen,* AD- 754 846 Fields, *

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10- 715 922

Normative distributions of AQE aptitude indexes for high-schoolsee boys. AD- 605 821 SELECTION

Performance on airman qualifying examination by regional areas and AQE norms for high school 10- 617 335

seniors and air force training groups.

DEVELOPMENT AND STANDARDIZATION OF AIRMAN QUALIFYING EXAMINATION-NO- 619 346

FOR INCREASING THE VALIDITY OF THE AIRMAN QUALIFYING EXAMINATION FOR THE CLASSIFICATION OF BASIC AN ANALYSIS OF CERTAIN METHODS AD- 661 996

CONVERSION TABLES FOR AIRMAN QUALIFYING EXAMINATION AND EMPLOYEE APTITUDE SURVEY SCORES,* AD- 661 998

Classification Typology for Predicting Performance in Air Force Technical Training* *AIR FORCE TRAINING AD-A039 268

SELECTION OF FOREIGN STUDENTS FOR TRAINING IN THE UNITED STATES AIR FORCE, + APTITUDE TESTS AD- 683 725

the Relationships between Air Force Aptitude Composites and Training Cultural Subgroup Differences in Criteria,* 10- 715 922

Development and Standardization of the Air Force Officer Qualifying TEST CONSTRUCTION (PSYCHOLOGY) lest Form L.+

Development of New Selection FAIR TRAFFIC CONTROLLERS Tests

A COMPARATIVE STUDY OF AIR TRAFFIC TRAINEE APTITUDE-TEST MEASURES INVOLVING NAVY, MARINE CORPS AND FAA CONTROLLERS,* APTITUDE TESTS

Chronological Age and Aptitude Test Measures of Advanced-Level Air The Relationship between Traffic Control Trainees.*

Screening of Air Traffic Controller A Proposed New Test for Aptitude Applicants, * AD- 733 830

Effects of Anxiety Type and Item Difficulty Sequencing on Mathematics Aptitude Test Performance.* APTITUDE TESTS AD- 746 058 AD- 755 728 *ANXIETY

Survey of tests used in airman classification. AD- 403 831 *APTITUDE

INTERRELATIONSHIPS BETWEEN
APTITUDE TESTS SCORES, PERFORMANCE
IN SUBMARINE SCHOOL, AND SUBSEQUENT
PERFORMANCE IN SUBMARINES AS
DETERMINED BY RATINGS AND TESTS -APTITUDE TESTS FOR ARMY MOTOR VEHICLE OPERATORS* SHIPBOARD PERFORMANCE MEASURES* RESEARCH ON THE DEVELOPMENT OF MEASUREMENT OF INTEREST *APTITUDE TESTS PATTERNS* AD- 022 814 AD- 006 957 AD- 045 27

REPORT ON THE VALIDATION OF TESTS AGAINST FIRST AND SECOND TERM GRADES AND QUALITY-POINT RATIOS AT SELECTION TESTS FOR ARMY OPERATORS OF HEAVY AND LIGHT MOTOR

THE U.S. NAVAL POST-GRADUATE SCHOOL (JULY 1948 TESTING)* AD- 072 201

VALIDITIES OF TESTS GIVEN IN JULY 1949 AND OF SUBTESTS OF THE POSTGRADUATE SCHOOL APTITUDE TEST FORM WNPF FOR PREDICTING AVERAGE GRADES FOR FIRST TWO TERMS AT THE U.S. NAVAL POSTGRADUATE SCHOOL*

1950 FOR PREDICTING AVERAGE GRADES FOR THE FIRST TWO TERMS AT THE U.S. VALIDITIES OF TESTS GIVEN IN NAVAL POSTGRADUATE SCHOOL* AD- 072 203

VALIDITIES OF TESTS GIVEN IN JULY 1948 FOR PREDICTING FIRST YEAR AVERAGE GRADES AT THE U.S. NAVAL POSTGRADUATE SCHOOL+

FURTHER STUDIES OF THE VALIDITY OF COMPONENTS OF THE U.S. NAVAL POSTGRADUATE SCHOOL TEST* AD- 072 205 AD- 072 204

A SYNTHESIS OF TWO FACTOR ANALYSIS OF INTERMEDIATE ALGEBRA* THE CONTRIBUTION OF INTEREST TEST SCORES TO DIFFERENTIAL ACADEMIC PREDICTION* AD- 103 459

Relationship between Test Scores and Performance on Mechanical Sex Differences in the

AD- 141 840

A NEW APTITUDE-FOR-SERVICE TEST (MULTIPLE CHOICE SENTENCE COMPLETIONS) + AD- 154 623 AD- 162 819

RELATIONS AMONG M SETS OF

GRADES AND POST-OCS PERFORMANCE OF JUNIOR OFFICERS WITH A BATTERY OF PREDICTION OF OCS ACADEMIC SPEEDED TESTS* VARIABLES*

ANALYSIS OF RELATIVE WEIGHTS
ASSIGNED TO OCS PREDICTORS AND OCS COURSE GRADES+

- 255 867

DEVELOPMENT OF A NON-COGNITIVE EMP BATTERY: PREDICTION OF PERFORMANCE TES ABOARD NUCLEAR POWERED SUBMARINES+ AD- 2 - 256 816

FUNCTION OF TRAINING IN A TECHNICAL

CURRICULUM.

COMPARATIVE EVALUATION OF A
STANDARD FACE CURTAIN AND AN
EXPERIMENTAL D-RING LOCATED ON THE
SEAT FRONT AS MODES OF ACTUATING
ACCELERATION: LETTER REPORT
CONCERNING*

AD- 257 519
VALIDATION OF ARMY FIXED-WING
APTITUDE BATTERY AGAINST SUCCESS IN
ROTC FLIGHT TRAINING*

AD- 263 738
VALIDATION OF THE ARMY FIXEDWING APTITUDE BATTERY AGAINST
SUCCESS IN ARMY FLIGHT TRAINING*
AD- 263 741

THE VALIDITY OF THE OFFICER-LIKE-QUALITY MEASURES USED IN THE U. S. NAVAL SCHOOL, PRE-FLIGHT*

THE RELATIONSHIP OF PRE-FLIGHT SCHOOL GRADES TO SUCCESS IN THE

AD- 263 917

AIR FORCE ACADEMY SELECTION

VARIABLES AS PREDICTORS OF SUCCESS
IN PILOT TRAINING*

SELECTING THE FIRST-LINE SUPERVISOR*

AD- 265 459

SHORTER.

DEVELOPMENT OF EXPERIMENTAL
SELECTORS FOR ARMY HELICOPTER PILOT
TRAINEES—PERSONALITY CONSTRUCTS*
AD— 265 467
APTITUDE AND PERFORMANCE DATA OF
FLIGHT AND NAVAL AVIATION OFFICER
STUDENTS BY PROCUREMENT SOURCE*

FACTORIAL STRUCTURE OF BASIC TRAINING PERFORMANCE VARIABLES*

MEASUREMENT OF MENTAL SKILLS
EMPLOYED IN ARITHMETIC REASONING
TESTS*
AD- 266 864
AD- 266 864

DEVELOPMENT OF SCREENING AND SELECTION TESTS FOR WOMEN* AD- 266 865 DEVELOPMENT OF A JOB SAMPLE PROFICIENCY TEST FOR GUIDED

DEVELOPMENT OF A JOB SAMPLE
PROFICIENCY TEST FOR GUIDED
MISSILEMEN MAINTAINING THE MARK
MOD O TARTAR MISSILE*

5

)- 267 603
VALIDATION OF AIR FORCE
CLASSIFICATION TESTS AGAINST
ACADEMIC GRADES IN AN AVIATION HIGH
SCHOOL*

AD- 267 799
DEVELOPMENT OF THE AIR FORCE
PRECOMMISSION SCREENING TEST-62*
AD- 269 527

A MACHINE SEARCH FOR MODERATOR
VARIABLES IN MASSIVE DATA*
AD- 271 148
AN ANALYSIS OF THE EFFECTS OF
REPETITIVE TESTING ON FIGURE MATRIX
TEST SCORES*
AD- 271 386

ACB TESTS, THE AUTOMOTIVE INFORMATION TEST AND THE ARMY CLERICAL SPEED TEST AND THE ARMY POPULATION IN MENTAL ABILITY, AI-3 AND AI-4 SUFFICIENTLY REITABLE, AND DIFFERENTIATED FROM VERBAL TEST. ACS-3 AND ACS-4 RELIABLE,

AD- 276 622

SELF-RATINGS OF APTITUDES BY
HIGH
SCHOOL STUDENTS FOUND
RELATED TO
VOCATIONAL
DEVELOPMENTAL PROGRAMS BUT A HIGHER
CORRELATION BETWEEN APTITUDE

THE AUTOBIOGRAPHY AND VOCATIONAL
DEVELOPMENT*
AD- 282 428
DIFFERENTIATION AND INTEGRATION

ON CAREER DEVELOPMENT*

D-3

UNCLASSIFIED ZOMO9

AD- 282 429
THE EVALUATION OF SELECTION
SYSTEMS: STATEMENT OF THE PROBLEM
AND PROCEDURES FOR SOLVING IT*

FACTORS INFLUENCING THE USE OF PRACTICAL PERFORMANCE TESTS IN THE NAVY. ATTILUDES OF SUPERVISORS AND INSTRUCTORS TOWARD DESIRABILITY AND PRACTICALITY OF PERFORMANCE TESTS.

THE SELF CONCEPT IN CAREER
DEVELOPMENT: A CONSTRUCT IN

TRANSITION. AD- 288 426

AWARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT. AD- 288 427

INVESTIGATIONS ON BACKGROUND AND PREFERENCE INFORMATION FOR PREDICTING SUCCESSFUL COMPLETION OF FIRST-TERM OF ENLISTED PERSONNEL:

AD- 289 620
ANALYSIS OF A PERSONAL
ANALYSIS OF A PERSONAL
QUESTIONNAIRE FOR AIRMAN
CLASSIFICATION BATTERY WITH
SEPARATE GROUPS OF ITEMS KEYED TO
DIFFERENT JOB AREAS.
AD- 289 877

EXAMINATION OF THE PERFORMANCE CHARACTERISTICS OF A GROUP OF LOW-APTITUDE AIRMEN WAS CONDUCTED FOR THE PREDICTION OF SUCCESS AND ADDITIONAL SCREENING TECHNIQUES.

AD- 293 545

AN AXIOMATIZATION OF MENTAL TEST
THEORY IS PRESENTED. THE
PRESENTATION DEALS EXPLICITLY
WITH THE FOLLOWING CONCEPTS: TRUE
SCORE, PARALLEL FORMS,
RELIABILITY, VALIDITY, AND COMBINED
TEST SCORE.

D- 291 106
AN ASSESSMENT OF CAPABILITIES OF
FLEET PERSONNEL IN ORDER TO
DEVISE, AND
REQUIREMENTS FOR ON-THE-JOB
TRAINING OF MISSILE

TECHNICIANS.

UNCLASSIFIED

DEVELOPMENT AND STANDARDIZATION OF FORM 6 OF THE U. S. NAVY LITERACY TEST.

Aptitude Benchmark Scales for the Administrative and General Career lask Difficulty and Task Fields.*

Improving the Estimate of Latent A Cognitive Intervention for Ability Measured from Analogy 10- 771 677

A Computer Software System for Adaptive Ability Measurement. + No- 772 626

Performance Tests for Prediction of Aerospace Ground Equipment Course Validation of a Battery of

Services Vocational Aptitude Battery Scores from Answer Sheet and Answer Card Administration.* Comparability Study of Armed

Feasibility of Using Special

Measures in the Classification and Assignment of Lower Mental Ability Airmen.*

Validation of the Cross-Cultural Vietnamese Pilot Trainee Sample.* Performance Prediction Procedures. Nonverbal and Culture Fair AD- 778 072

A Word Knowledge Item Pool for Adaptive Ability Measurement.* 10- 779 912

III. Cross Validation. *

1. Development of the Instruments. Performance in Three Navy Ratings: An Evaluation of Computerized Tests as predictors of Job

An Empirical Investigation of Computer-administered Pyramidal Ability Testing. +

Methods for Predicting Job-Ability Requirements: II. Ability Requirements as a Function of Changes in the Characteristics of an Electronic Fault-Finding task.* AD- 785 868 AD- 783 553

Simulation Studies of Two-Stage Ability Testing. * AD-A001 230

Shallow Habitat Air Dive (SHAD- Psychological Screening of Divers as Subjects for Long Duration Saturation Experimentation.* AD-A002 707

Secondary Schools from the General Technical Composite on the Armed Predicting Academic Success in Services Vocational Aptitude

Percentile Normative Tables for AD-A005 288

the Armed Services Vocational Aptitude Battery (1973-74) School The Measurement of Operator Year Data Base. * AD-A005 289

Capacity by Manipulation of Dual-Predictors of Success in Flight Basic Attention Measures as Task Demands. * AD-A006 352

An Empirical Comparison of Two-Stage and Pyramidal Adaptive Ability Testing. * Training.* 4D-A006 385

Vocational Aptitude Battery to Success in High School Vocational-Addendum. * A Concurrent Validity Study Relating the Armed Services Technical Courses. ND-A006 733

Automated Pilot Aptitude Measurement System.* 4D-A014 979

A Study of Computer-Administered Stradaptive Ability Testing. *

UNCLASSIFIED

Relating the Armed Services Vocational Aptitude Battery to Success in High School Vocational-Technical Courses.* A Concurrent Validity Study AD-A019 192

Validity for Global and Job Element Criteria.* An Evaluation of Computerized Tests as Predictors of Job Performance: II. Differential

Civilian Vocational-Technical High Validation of ASVAB-2 Against School Criteria.* AD-A023 118 AD-A020 867

Levels and Impact on the Personnel Establishing Aptitude
Requirements for Air Force Jobs:
Historical Review of Aptitude System.*

Tests in Predicting Performance at Coast Guard Class A. Schools: I. Machinery Technician School. The Effectiveness of Selection Yorktown, Virginia.* 40-A023 455

Multiple-Purpose Prediction Systems Variable Selection for in the Absence of External VARSEL: Criteria. * AD-A025 328

A Culture-Free Performance Test Airman Classification Batteries from 1948 to 1975: A Review and of General Learning Ability.* AD-A025 412

Qualifications for Personnel in New Handbook for the Development of echnology Systems.* AD-A026 470 AD-A027 526

Evaluation.*

Comparison of ASVAB Test-Retest Results of Male and Female Enlistees. + AD-A029 517

Person-Job Match Preliminary Forecasting Program.+ 4D-A030 334

Reference Tables for the Armed Services Vocational Aptitude Battery.*
AD-A031 537
Representative Normative Tables for the Armed Services Vocational Aptitude Battery (Form 5).*

Aptitude Battery (Form 5).*
D-A032 109
Armed Services Vocational
Aptitude Battery (ASVAB)
Correlational Analysis, ASVAB Form
2 versus ASVAB Form 5.*

O-A032 593
Armed Services Vocational
Aptitude Battery (ASVAB) Form 5:
High School Norming and
Standardization.*

AD-A034 323

The Testing of a Regression
Model for Predicting the
Progression Index in Various Army
Courses.*

ND-A034 445
Armed Services Vocational
Aptitude Battery (ASVAB Form 5):
Comparison with GATB and DAT

Requirements Using Attribute Data Based upon the Position Analysis Analysis Analysis Analysis

Job-Derived Selection: Preliminary Rept.*

AD-A035 624
Armed Services Vocational
Aptitude Battery Development (ASVAB Forms 5,6, and 7).*

Weldation of Non-Verbal Measures for Selection and Classification of Enlisted Personnel.* Services Vocational Aptitude Battery: Forms 8, 9, and 10.* AD-A039 270

Performance on the Vocational

Relationships between

Interest-Career Examination and Reported Job Satisfaction.*

AD-A040 754
Accuracy of Perceived Test-Item

Difficulties.*
AD-A041 084
Prediction of Air Force
Technical Training Success from

Technical Training Success from ASVAB and Educational Background.* AD-A041 735 Job-Derived Selection: Follow

up Report.*

AD-A042 269

An Information Processing Approach to Performance Assessment.

I. Experimental Investigation of an Information Processing Performance Battery.*

AD-A047 299

Ability Estimation and Item
Calibration Using the One and Three
Parameter Logistic Models: A
Comparative Study.*

Development of a Screening Methodology for Entry into Medical Technical Training Courses.*

Screening Test Battery for Dental Laboratory Specialist Course: Development and Validation.*

Development of New Selection
Tests for Air Traffic Controllers,*
AD-A049 049

Sociolinguistic and Measurement Considerations for Construction of Armed Services Selection Batteries.*

AD-A050 828
Analysis Aptitude Test for
Selection of Airmen for the Radio
Communications Analysis Specialist
Course: Development and

ACCURACY

Validation. *

AD-A051 952

Test-Free Person Measurement with the Rasch Simple Logistic

Model . *

ADAPTIVE SYSTEMS
An Empirical Study of Computer-Administered Two-Stage Ability
Testing.*

AD- 768 993

AIR FORCE

Validity of Airman qualifying examination, Form F, for technical training grades-1961.

AD- 426 756

Factors Related to Adaptability to Military Service among 1965
Airman Accessions.*

AD- 768 328

AIR FORCE PERSONNEL
Prediction by career field of
first term airman performance from
selection and basic training
variables.

AD- 600 781

Development and standardization

of the Air Force Officer Qualifying

AD- 600 782

Performance on airman qualifying examination by regional areas and by sex.

DEVELOPMENT AND STANDARDIZATION OF AIRMAN QUALIFYING EXAMINATION— 66,* AD— 661 996

AN ANALYSIS OF CERTAIN METHODS FOR INCREASING THE VALIDITY OF THE AIRMAN QUALIFYING EXAMINATION FOR THE CLASSIFICATION OF BASIC AIRMEN.*

AD- 661 997
CONVERSION TABLES FOR AIRMAN
QUALIFYING EXAMINATION AND EMPLOYEE
APTITUDE SURVEY SCORES,*

Suitability of Using Common Selection Test Standards for Negro and White Airmen,*

> D-5 UNCLASSIFIED

70MO

Task Difficulty and Task Aptitude Benchmark Scales for the Mechanical and Electronics Career fields.

Validity of Armed Services Vocational Aptitude Battery, Form 1, to Predict Technical School

Success.*

AIR FORCE TRAINING
SELECTION OF FOREIGN STUDENTS
FOR TRAINING IN THE UNITED STATES
AIR FORCE,*

10- 683 725 Cultural Subgroup Differences in the Folationships between Air Force April de Composites and Training

10- 715 922

AIR TRAFFIC CONTROLLERS
A COMPARATIVE STUDY OF AIR
TRAFFIC TRAINEE APTITUDE-TEST
MEASURES INVOLVING NAVY, MARINE
CORPS AND FAA CONTROLLERS,*
AD- 686 669

The Relationship between Chronological Age and Aptitude Test Measures of Advanced-Level Air Traffic Control Trainees.*

APP 133 939
A Proposed New Test for Aptitude Screening of Air Traffic Controller Applicants.*
Applicants.*

ANXIETY

Effects of Anxiety Type and Item
Difficulty Sequencing on
Mathematics Aptitude Test
Performance...
AD- 755 728

ARMED FORCESUNITED STATES
THE ARMED SERVICES VOCATIONAL
APTITUDE SATTERY.*

ARMY PERSONNEL

Feasibility of abbreviated forms for the enlistment screening test.

AD- 602 979 Test methods for screening enlisted personnel.

AD- 602 981 Research to improve enlisted classified techniques.

AD- 605 281

Validation of experimental electronics selection battery.
AD- 605 282

Aptitude Level and Performance on Intramodal and Intermodal Form Discrimination Tasks.*

4D- 758 874
Effectiveness of Selection and Classification Testing.*

AVIATION PERSONNEL
PRELIMINARY REPORT ON A TEST OF
MECHANICAL COMPREHENSION,*
AD- 707 125

CALIBRATION
CALIBRATION OF NAVY
CLASSIFICATION TESTS WITH CIVILIAN
INTELLIGENCE TESTS.*

CHILDREN
Investigation of a Creativity
Dimension.*
AD- 756 193

CODING

AN EVALUATION OF A SHORT FORM OF

THE RADIO CODE APTITUDE TEST.*

AD- 639 224

COMPUTER OPERATORS
Electronic data processing test—
63: Air Force test for identifying proficient operators.
AD- 622 339

UNCLASSIFIED ZOMO9

THE PREDICTIVE VALIDITY OF

CREATIVITY

CERTAIN MEASURES OF CREATIVITY IN MACHINE DESIGN.*
AD- 662 696

CULTURE
DEMOGRAPHIC DIFFERENCES IN
APTITUDE TEST PERFORMANCE,*
AD- 710 618

A Model for Psychometrically Distinguishing Aptitude from Ability.* AD- 751 030

DECISION MAKING

Decisional Differences among Individuals: A Signal Detection Theory Approach.* Errec Evaluation of tests to predict success in automotive maintenance helpers course. AD- 412 530 EFFECTIVENESS
Iorrove selection of enlisted students in the Automatic Data processing (Fieldata).

An investigation of the validity of certain aptitude tests in predicting academic performance in the Navy management curriculum of the US Naval postgraduate school - thesis.

AD- 481 371

DEVELOPMENT OF IMPROVED APTITUDE
AREA COMPOSITES FOR ENLISTED
CLASSIFICATION.*
AD- 701 134

AD- 701 134

Measured Mental Ability, Service School Achievement and Performance,*

ELECTRONIC TECHNICIANS
THE EFFECT OF ELECTRONIC
APTITUDE ON PERFORMANCE OF
PROCEDURALIZED TROUBLESHOOTING

CLASSIFICATION TEST FORMS 5 AND 6.4

Performance in the F-4 Aircraft, + The Prediction of Pilot

AD- 764 866

EVALUATION OF TESTS FOR IMPROVEMENT OF PROGRAMMER TRAINEE SELECTION, + PROGRAMMERS 10- 681 609

RELIABILITY

Validity of the Navy Vocational Interest Inventory.* Reliability and Predictive 10- 721 075

REVIEWS

Conventional or Adaptive. * Ability Measurement:

STATISTICAL ANALYSIS
Comparative Cluster Analysis of
Patterns of Vocational Interest.* AD- 731 040

aptitude indexes for high-school-Normative distributions of AQE age boys. STUDENTS

AQE norms for high school seniors and air force training

ND- 619 346

AVERAGE NAVY BASIC BATTERY
APTITUDE TEST SCORES FOR ENLISTED SUBMARINE PERSONNEL SUBMARINERS. *

TEST CONSTRUCTION (PSYCHOLOGY)
DEVELOPMENT OF ARMED FORCES
QUALIFICATION TEST 7 AND 8,*

Development of the reserve TEST CONSTRUCTION (PSYCHOLOGY)

officer aptitude test forms 1 and

AD- 479 819

Performance in Five Army Jobs by Men at Different Aptitude (AFQT) Levels: II. Development and Description of Instruments.*

New ACB and Aptitude Area System.* Development and Evaluation of 4D- 720 216 40- 751 761

SOME APPLICATIONS OF PROCEDURES FOR ALLOCATING TESTING TIME.*

TRACKING

Reprint: Acquisition of Pursuit Tracking Skill under Extended Training as a Joint Function of Sex and Initial Ability.

AD- 755 016

Nonverbal and Culture Fair Performance Procedures. Initial Validation. * AD- 770 550 APTITUDES

Changes in the Characteristics of a Concept Identification Task.* Methods for Predicting Job-Ability Requirements: III. Ability Requirements as a Function of

Requirements, and Problem-Solving Ability Requirements: IV. Task Methods for Predicting Job-Characteristics, Ability Strategies.* 4D-A010 469 AD-A015 719

The Recruit Temperament Survey (RTS) as a Predictor of Paramedical Effectiveness Criteria,*

Theory and Method for Research on Aptitude Processes:

*ARMY PERSONNEL

Effects of General Ability, Education, and Racial Group on Aptitude Test Performance. * APTITUDE TESTS 40- 738 985

Aptitude Level and Performance on Intramodal and Intermodal Form Discrimination Tasks. * AD- 758 874

Effectiveness of Selection and Classification Testing.* AD- 768 168

CLASSIFICATION

Development and Evaluation of a New ACB and Aptitude Area System.* AD- 751 761

electronics selection battery. AD- 605 282 Validation of experimental ELECTRONIC TECHNICIANS

Performance in Five Army Jobs by Men at Different Aptitude (AFQT) Levels: II. Development and Description of Instruments.* PERFORMANCE (HUMAN) 40- 720 216 PERSONNEL MANAGEMENT DEVELOPMENT OF IMPROVED APTITUDE AREA COMPOSITES FOR ENLISTED CLASSIFICATION. .

AD- 701 134

Army school training performance of EM scoring low on AFQT. PSYCHOLOGICAL TESTS AD- 609 035

U. S. Army Selection Center Evaluation Study.* RECRUITING

Research to improve enlisted classified techniques. SELECTION

UNCLASSIFIED

20MOS

Ability Ability Requirements: I. Ability Requirements as a Function of Changes in the Characteristics of an Auditory Signal Identification Methods for Predicting Job-EMPLOYMENT

Studies of aptitudes of high-level A factor analysis of the symbolicevaluation abilities. FACTOR ANALYSIS personnel.

10- 769 073

responses to a test of vocational Geographical differences in interests. 4D- 626 612 GEOGRAPHY

PRELIMINARY VALIDATION OF THE OMNIBUS TEST BATTERY: I. SOIL GOVERNMENT EMPLOYEES CONSERVATIONISTS, * ND- 649 650

COMPARISON OF AIR FORCE APTITUDE INDEXES WITH CORRESPONDING TALENT
TEST COMPOSITES.+ 10- 420 555 INDEXES

U. S. Army Selection Center Evaluation Study.* JOB ANALYSIS AD- 767 279

LANGUAGE

A Psychoacoustic Investigation Probability of Graduate Success.* A Logistic Quantal Response Model for Estimating the of Foreignness.* AD- 722 676 LOGISTICS

10- 725 057

MAINTENANCE PERSONNEL
EFFECT OF AMBIGUOUS TEST RESULTS
ON TROUBLESHOOTING PERFORMANCE.* 4D- 664 891

Army school training performance of EM scoring low on AFQT.

AD- 609 035 MANDOWER

Curricular and specific transfer to problem solving ability. MEASUREMENT AD- 428 268

technical training from self-report Prediction of success in information on educational MILITARY PERSONNEL achievement. AD- 414 888

Validation of the 1961 navy college aptitude test. NAVAL PERSONNEL AD- 619 169

States Navy clerical aptitude test, Investigation of the United Validation of the 1962 navy college aptitude test. AD- 619 990 form 6.

Nonverbal and Culture Fair Performance Prediction Procedures. I. Background, Test Development, VALIDATION OF THE 1963 NAVY COLLEGE APTITUDE TEST. . AD- 620 668

The Validation of the Strong Vocational Interest Blank for Disenrollment and Military Predicting Naval Academy and Initial Results.* Apt i tude . .

Diver First Class Reading AD- 755 169 Ability. .

NAVY RECRUIT CLASSIFICATION
TESTS AS PREDICTORS OF PERFORMANCE
IN 87 CLASS 'A' ENLISTED SCHOOLS NAVAL TRAINING * (1964-1966)

BRIEF NAVY ENLISTED CLASSIFICATION A PRELIMINARY EVALUATION OF AD- 687 105 AD- 703 611 TESTS. *

A NON-COGNITIVE TEST BATTERY AS A PREDICTOR OF CLASS 'A' SCHOOL PERFORMANCE.*

PREDICTION OF SECOND-YEAR GRADE-POINT AVERAGES AT THE U. S. NAVAL POSTGRADUATE SCHOOL.* AD- 709 794

Project on aptitudes of highlevel personnel. OFFICER PERSONNEL AD- 605 131

CRITERION OF APTITUDE FOR SERVICE. DEVELOPMENT OF PERSONALITY TESTS OF THE AIR FORCE OFFICER QUALIFYING DEVELOPMENT AND STANDARDIZATION FOR NAVAL OFFICER SELECTION. I. ANALYSIS OF U. S. NAVAL ACADEMY TEST FORM K, . AD- 710 018 AD- 710 602

Development and Standardization of the Air Force Officer Qualifying Test Form L.* AD- 754 849

PERFORMANCE (HUMAN)

Effects of General Ability, Education, and Racial Group on Aptitude Test Performance. * AD- 738 985

men; full regression equations vs. Optimal allocation of enlisted aptitude area scores. PERSONNEL MANAGEMENT AD- 625 224

DEVELOPMENT OF AVIATION PILOTS

UNCLASSIFIED

SOMO2

*ARMY TRAINING
The Testing of a Regression
Model for Predicting the
Progression Index in Various Army
Courses.*
AD-A034 445

APTITUDE TESTS

Army school training performance of EM scoring low on AFQT.

AD- 609 035

*ATTITUDES(PSYCHOLOGY)
INVESTIGATIONS ON BACKGROUND AND
PREFERENCE INFORMATION FOR
PREDICTING SUCCESSFUL COMPLETION
OF FIRST-TERM OF ENLISTED
PERSONNEL.

1D- 289 620 Comparison of ASVAB Test-Retest Results of Male and Female Enlistees.*

AD-A029 517

*AUDITORY ACUITY
PERFORMANCE(HUMAN)
Methods for Predicting JobAbility Requirements: I. Ability
Requirements as a Function of
Changes in the Characteristics of
an Auditory Signal Identification
Task.*

*AUDITORY PERCEPTION
ANALYSIS OF VARIANCE
Reprint: Effects of Speech
Rate, Selection Difficulty,
Association Strength and Mental
Aptitude on Learning by Listening.
AD-75, 892

*AUTOMATIC PILOTS
Automated Pilot Aptitude
Measurement System.*
AD-A018 151

*AVIATION PERSONNEL
THE VALIDITY OF THE OFFICER-LIKEQUALITY MEASURES USED IN THE U. S.
NAVAL SCHOOL, PRE-FLIGHT*

AD- 263 915
THE RELATIONSHIP OF PRE-FLIGHT
SCHOOL GRADES TO SUCCESS IN THE
FLEET*
AD- 263 917

FACTORIAL STRUCTURE OF BASIC TRAINING PERFORMANCE VARIABLES* AD- 265 824 MEASUREMENT OF MENTAL SKILLS EMPLOYED IN ARITHMETIC REASONING

EMPLOYED IN ARITHMETIC REASONING
TESTS*
AD- 266 864
VALIDATION DF AIR FORCE
CLASSIFICATION TESTS AGAINST
ACADEMIC GRADES IN AN AVIATION HIGH

CLASSIFICATION TESTS AGAINST
ACADEMIC GRADES IN AN AVIATION H
SCHOOL*
AD- 267 799
DEVELOPMENT OF THE AIR FORCE
PRECOMMISSION SCREENING TEST-62*

AD- 269 527
INVESTIGATIONS ON BACKGROUND AND
PREFERENCE INFORMATION FOR
PREDICTING SUCCESSFUL COMPLETION
OF FIRST-TERM OF ENLISTED

PERSONNEL.
AD-289 620
ANALYSIS OF A PERSONAL
QUESTIONNAINE FOR AIRMAN
CLASSIFICATION BATTERY WITH
SEPARATE GROUPS OF ITEMS KEYED TO
DIFFERENT JOB AREAS.

APTITUDE TESTS

PRELIMINARY REPORT ON A TEST OF

MECHANICAL COMPREHENSION.*

AD- 707 125

SELECTION
COMPARISON OF AIR FORCE APTITUDE
INDEXES WITH CORRESPONDING TALENT
TEST COMPOSITES,*
AD- 420 555

*BEHAVIOR
THE SELF CONCEPT IN CAREER
DEVELOPMENT: A CONSTRUCT IN
TRANSITION.
AD- 288 426

*BENCH TESTS

Task Difficulty and Task
Aptitude Benchmark Scales for the
Administrative and General Career
Fields.*

*CHILDREN
CREATIVITY
Investigation of a Greativity
Dimension.*

*CLASSIFICATION
VALIDATION OF ARMY FIMED-WING
VALIDATION OF AGAINST LUCCESS IN
ROTC FLIGHT TRAINING*
AD- 263 738

*COAST GUARD
The Effectiveness of Delegation
Tests in Predicting Perionmere at
Coast Guard Class A. Senemer I.
Machinery Technician School.
Yorktown, Virginia.*

AD-A023 455

COMMUNICATION AND RADIO SVETEMS CODING AN EVALUATION OF A SHORT FORM OF THE RADIO CODE APTITUDE TEST.

*COMPUTER AIDED INSTRUCTION
ACCUPACY OF Perceived Test-Item
Difficulties.*

*COMPUTER APPLICATIONS
A Computer Software System for
Adaptive Ability Measurement.*
AD-773 961
A Word Knowledge Item Pool for
Adaptive Ability Measurement.*
AD-781 894
An Evaluation of Computerized

Tests as Predictors of Job Performance in Three Navy Ratings: I. Development of the Instruments. AD- 782 527 An Empirical Investigation of Computer-administered Pyramidal

UNCLASSIFIED 20

20MOS

Stage and Pyramidal Adaptive Ability Testing. * Ability Testing.*

A Study of Computer-Administered Stradaptive Ability Testing.*

Validity for Global and Job Element An Evaluation of Computerized Tests as Predictors of Job Performance: II. Differential Criteria.*

*COMPUTER OPERATORS

AD-A020 867

63: Air Force test for identifying Electronic data processing testproficient operators. APTITUDE TESTS

COMPUTER PROGRAMMING PERFORMANCE (HUMAN)

An Empirical Study of Computer-Administered Two-Stage Ability esting. * AD- 768 993

CONTRACTS

Person-Job Match Preliminary Forecasting Program.* AD-A030 334

THE PREDICTIVE VALIDITY OF CERTAIN MEASURES OF CREATIVITY IN MACHINE DESIGN.* AD- 662 696 ENGINEERS CREATIVITY

Validation of the Cross-Cultural Aircrew Aptitude Battery on a Vietnamese Pilot Trainee Sample. *CROSS CULTURE (SOCIOLOGY) 10- 778 072

Cultural Subgroup Differences in AIR FORCE PERSONNEL

the Relationships between Air Force Aptitude Composites and Training Criteria, *

APTITUDE TESTS
DEMOGRAPHIC DIFFERENCES IN
APTITUDE TEST PERFORMANCE,* 4D- 710 618

Decisional Differences among Individuals: A Signal Detection *DECISION MAKING APTITUDE TESTS

Theory Approach. *

AD- 765 732

AD- 257 519

Screening Test Battery for Dental Laboratory Specialist Course: Development and *DENTAL PERSONNEL Validation. * AD-A048 120

Shallow Habitat Air Dive (SHAD-1): Psychological Screening of Divers as Subjects for Long Duration Saturation Experimentation.* AD-A002 707 *DIVERS

DEVELOPMENTAL PROGRAMS BUT A HIGHER CORRELATION BETWEEN APTITUDE SELF-RATINGS OF APTITUDES BY VOCATIONAL TEST AND ACHIEVEMENT. RELATED TO AD- 282 421 *EDUCATION

CHARACTERISTICS OF A GROUP OF LOW-APTITUDE AIRMEN WAS CONDUCTED FOR THE PREDICTION OF SUCCESS AND ADDITIONAL SCREENING TECHNIQUES. EXAMINATION OF THE PERFORMANCE 4D- 290 545

THE RELATIONSHIP OF PRE-FLIGHT SCHOOL GRADES TO SUCCESS IN THE *EFFECTIVENESS

AD- 263 917

COMPARATIVE EVALUATION OF A
STANDARD FACE CURTAIN AND AN
EXPERIMENTAL D-RING LOCATED ON THE
SEAF FRONT AS MODES OF ACTUATING
EJECTION DURING EXPOSURE TO
ACCELERATION: LETTER REPORT
CONCERNING* *EJECTION SEATS

PROCEDURALIZED TROUBLESHOOTING THE EFFECT OF ELECTRONIC APTITUDE ON PERFORMANCE OF *ELECTRONIC EQUIPMENT MAINTENANCE

EFFECT OF AMBIGUOUS TEST RESULTS ON TROUBLESHOOTING PERFORMANCE. . 4D- 664 889 AD- 664 891

electronics selection battery Validation of experimental *ELECTRONIC TECHNICIANS SELECTION

TEST CONSTRUCTION(PSYCHOLOGY)
Task Difficulty and Task
Aptitude Benchmark Scales for the Mechanical and Electronics Career AD- 754 848 Fields. *

Technical Training Success from ASVAB and Educational Background.* *ENLISTED PERSONNEL AD-A041 735

Development of a Screening

Methodology for Entry into Medical Screening Test Battery for Dental Laboratory Specialist Course: Development and Technical Training Courses. . 4D-A048 119

Validation. .

A SYNTHESIS OF TWO FACTOR ANALYSIS OF INTERMEDIATE ALGEBRA* FACTORIAL STRUCTURE OF BASIC TRAINING PERFORMANCE VARIABLES* RELATIONS AMONG M SETS OF FACTOR ANALYSIS VARIABLES* AD- 103 459

DEVELOPMENT OF SCREENING AND SELECTION TESTS FOR WOMEN* AD- 265 824 AD- 266 865 . FEMALES

Validation of the Cross-Cultural Vietnamese Pilot Trainee Sample. * Aircrew Aptitude Battery on a *FLIGHT CREWS AD- 778 072

The Measurement of Operator Capacity by Manipulation of Dual-Task Demands. * *FLIGHT TRAINING AD-A006 352

Predictors of Success in Flight Basic Attention Measures as Automated Pilot Aptitude Measurement System.* Training. * AD-A006 385

AD-A018 151

responses to a test of vocational Geographical differences in APTITUDE TESTS interests. NO- 626 612 * GEOGRAPHY

PRELIMINARY VALIDATION OF THE OMNIBUS TEST BATTERY: I. SOIL CONSERVATIONISTS,* GOVERNMENT EMPLOYEES APTITUDE TESTS 10- 649 650

DEVELOPMENT OF A JOB SAMPLE GUIDED MISSILE PERSONNEL

MISSILEMEN MAINTAINING THE MARK 15 MOD O TARTAR MISSILE* PROFICIENCY TEST FOR GUIDED

AD- 267 603

I. Experimental Investigation of an Information Processing Performance Approach to Performance Assessment. An Information Processing *INFORMATION PROCESSING Battery. * AD-A047 299

*JOBS

EQUIPERCENTILE CONVERSIONS AS A FUNCTION OF TRAINING IN A TECHNICAL *INTELLIGENCE TESTS CURRICULUM* AD- 257 428

Test-Free Person Measurement with the Rasch Simple Logistic ACCURACY Model . *

Structural Attributes, Retention, Task Descriptions, Aptitudes and Relationships Among Job Work Values. * *JOB ANALYSIS AD-A014 466

The Prediction of Job Ability Requirements Using Attribute Data Based upon the Position Analysis Technology Systems.* AD-A027 526

Questionnaire (PAQ).*

Qualifications for Personnel in New

Handbook for the Development of

Job-Derived Selection: Follow Job-Derived Selection: Preliminary Rept. * 4D-A035 623 4D-A035 624

up Report. *

AD-A042 269

Task Difficulty and Task Aptitude Benchmark Scales for the Mechanical and Electronics Career MECHANICAL ENGINEERING

AD- 754 848 Fields, *

Interest-Career Examination and Reported Job Satisfaction.* Performance on the Vocational Relationships between *JOB SATISFACTION AD-A040 754

Performance Prediction Procedures. Nonverbel and Culture Fair Nonverbal and Culture Fair Performance Procedures. III. Cross Validation. . Initial Validation. . AD- 770 550 AD- 779 912

A Psychoacoustic Investigation of Foreignness.* AD- 722 676 APTITUDE TESTS *LANGUAGE

DEVELOPMENT OF EXPERIMENTAL SELECTORS FOR ARMY HELICOPTER PILOT TRAINEES--PERSONALITY CONSTRUCTS. SELECTING THE FIRST-LINE SUPERVISOR* AD- 265 459 AD- 265 467 . LEADERSHIP

Reprint: Acquisition of Understanding and Skill in Relation Meaningfulness of Instruction. AD-A015 416 to Subjects' Preparation and .LEARNING

Automated Pilot Aptitude Measurement System. . AD-A018 151

Aptitude on Learning by Listening. Association Strength and Mental Reprint: Effects of Speech Rate, Selection Difficulty, PERFORMANCE (HUMAN)

UNCLASSIFIED

60W0Z

Sociolinguistic and Measurement Considerations for Construction of Armed Services Selection LINGUISTICS.

Batteries. * AD-A050 828

Relationship between Test Scores and Performance on Mechanical Sex Differences in the MAINTENANCE PERSONNEL

MISSILEMEN MAINTAINING THE MARK 15 DEVELOPMENT OF A JOB SAMPLE PROFICIENCY TEST FOR GUIDED MOD O TARTAR MISSILE* AD- 267 603 ND- 154 623

The Testing of a Regression Model for Predicting the Progression Index in Various Army AD-A034 445

EFFECT OF AMBIGUOUS TEST RESULTS ON TROUBLESHOOTING PERFORMANCE.* APTITUDE TESTS

Evaluation of tests to predict success in automotive maintenance helpers course. AD- 412 530

THE EFFECT OF ELECTRONIC APTITUDE ON PERFORMANCE OF PROCEDURALIZED TROUBLESHOOTING 10- 664 889 TRAINING

Qualifications for Personnel in New Handbook for the Development of Technology Systems.* AD-A027 526 *MARINE TRANSPORTATION

Calibration Using the One and Three Ability Estimation and Item *MATHEMATICAL MODELS

Parameter Logistic Models: comparative Study.* AD-A047 943

A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA* *MATHEMATICAL PREDICTION AD- 271 148

INVESTIGATIONS ON BACKGROUND AND PREDICTING SUCCESSFUL COMPLETION OF FIRST-TERM OF ENLISTED PREFERENCE INFORMATION FOR PREDICTING SUCCESSFUL CON PERSONNEL.

AD- 289 620

Task Difficulty and Task Aptitude Benchmark Scales for the Mechanical and Electronics Career *MECHANICAL ENGINEERING JOB ANALYSIS Fields,*

Development of a Screening Methodology for Entry into Medical Technical Training Courses.* *MEDICAL TECHNICIANS 4D-A048 119

Theory and Method for Research on Aptitude Processes: A *MEMORY (PSYCHOLOGY) Prospectus.* AD-A039 810

A Culture-Free Performance Test of General Learning Ability. * *MENTAL ABILITY AD-A025 412

Handbook for the Development of Qualifications for Personnel in Technology Systems.* *MERCHANT VESSELS AD-A027 526

A NEW APTITUDE-FOR-SERVICE TEST (MULTIPLE CHOICE SENTENCE COMPLETIONS) * MILITARY PERSONNEL AD- 162 819

VALIDATION OF THE ARMY FIXED-WING APTITUDE BATTERY AGAINST SUCCESS IN ARMY FLIGHT TRAINING*

DEVELOPMENT OF SCREENING AND SELECTION TESTS FOR WOMEN*
AD- 266 865

ASSESSMENT OF CAPABILITIES OF PERSONNEL IN ORDER TO REFINE CURRICULUM ON-THE-JOB TRAINING OF MISSILE REQUIREMENTS FOR TECHNICIANS. DEVISE, AND FLEET

Survey of tests used in airman AD- 293 239

Prediction of success in technical training from self-report information on educational classification. APTITUDE TESTS AD- 403 831

Project on aptitudes of highlevel personnel. AD- 414 888

achievement.

Evaluation of tests to predict success in automotive maintenance helpers course. 40- 412 530 CLASSI

DEVELOPMENT OF ARMED FORCES QUALIFICATION TEST 7 AND 8.* CLASSIFICATION AD- 421 158

Iorrove selection of enlisted students in the Automatic Data processing (Fieldata). AD- 412 850 SELECT ION

INTERRELATIONSHIPS BETWEEN
APTITUDE TESTS SCORES, PERFORMANCE
IN SUBMARINE SCHOOL, AND SUBSEQUENT
PERFORMANCE IN SUBMARINES AS DETERMINED BY RATINGS AND TESTS -*MILITARY TRAINING

FACTORS INFLUENCING THE USE OF PRACTICAL PERFORMANCE TESTS IN THE NAVY. ATTITUDES OF SUPERVISORS AND INSTRUCTORS TOWARD DESIRABILITY AND PRACTICALITY OF PERFORMANCE TESTS. VALIDATION OF THE ARMY FIXED-WING APTITUDE BATTERY AGAINST SUCCESS IN ARMY FLIGHT TRAINING* SHIPBOARD PERFORMANCE MEASURES* RESEARCH ON THE DEVELOPMENT OF

Improving the Estimate of Latent A Cognitive Intervention for Ability Measured from Analogy AD- 285 842 MODELS

AD- 772 626

OPERATORS OF HEAVY AND LIGHT MOTOR APTITUDE TESTS FOR ARMY MOTOR SELECTION TESTS FOR ARMY MOTOR VEHICLE OPERATORS VEHICLE UPERATORS+ AD- 006 957 AD- 045 997

DEVELOPMENT OF AVIATION CLASSIFICATION TEST FORMS 5 AND 6.* APTITUDE TESTS NAVAL AVIATION 10- 710 580

Performance in the F-4 Aircraft, + The Prediction of Pilot PERSONNEL MANAGEMENT AD- 764 866

Individuals: A Signal Detection Decisional Differences among PSYCHOLOGICAL TESTS Theory Approach.* AD- 765 732

Shallow Habitat Air Dive (SHAD-1): Psychological Screening of Divers as Subjects for Long NAVAL OPERATIONS

Duration Saturation Experimentation. * AD-A002 707

GRADES AND POST-OCS PERFORMANCE OF JUNIOR OFFICERS WITH A BATTERY OF PREDICTION OF OCS ACADEMIC SPEEDED TESTS* *NAVAL PERSONNEL

ANALYSIS OF RELATIVE WEIGHTS
ASSIGNED TO OCS PREDICTORS AND OCS
COURSE GRADES* AD- 255 866 AD- 255 867

THE VALIDITY OF THE OFFICER-LIKE-QUALITY MEASURES USED IN THE U. S.

AD- 703 611

THE RELATIONSHIP OF PRE-FLIGHT SCHOOL GRADES TO SUCCESS IN THE NAVAL SCHOOL, PRE-FLIGHT* AD- 263 915

Nonverbal and Culture Fair Performance Procedures. Initial Validation. * AD- 770 550

AD- 263 917

Performance Prediction Procedures. Nonverbal and Culture Fair III. Cross Validation.* AD- 779 912

Relationships Among Job Structural Attributes, Retention, Task Descriptions, Aptitudes and Work Values.* AD-A014 466

Validation of the 1962 navy THE 1963 NAVY COLLEGE APTITUDE TEST. * college aptitude test. VALIDATION OF APTITUDE TESTS AD- 619 990 AD- 638 680

Performance Prediction Procedures. I. Background, Test Development, Reliability and Predictive Validity of the Navy Vocational Interest Inventory.* Nonverbal and Culture Fair 40- 721 075

MOD-NAV

The Validation of the Strong Vocational Interest Blank for Disenrollment and Military Predicting Naval Academy Aptitude. * AD- 747 997

Diver First Class Reading Ability.* AD- 755 169

AD- 763 347

A PRELIMINARY EVALUATION OF BRIEF NAVY ENLISTED CLASSIFICATION CLASSIFICATION

DEVELOPMENT OF AVIATION CLASSIFICATION TEST FORMS 5 AND 6.* Validation of the 1961 navy AD- 710 580 SELECT ION

AD- 620 668
DEVELOPMENT OF PERSONALITY TESTS States Navy clerical aptitude test, Investigation of the United college aptitude test. AD- 619 169 form 6.

FOR NAVAL OFFICER SELECTION. I.
ANALYSIS OF U. S. NAVAL ACADEMY
CRITERION OF APTITUDE FOR SERVICE.* AD- 710 018

PREDICTION OF SECOND-YEAR GRADE-POINT AVERAGES AT THE U. S. NAVAL *NAVAL TRAINING
APTITUDE TESTS
NAVY RECRUIT CLASSIFICATION
TESTS AS PREDICTORS OF PERFORMANCE
IN 87 CLASS 'A' ENLISTED SCHOOLS
(1964-1966).* A PRELIMINARY EVALUATION OF BRIEF NAVY ENLISTED CLASSIFICATION AD- 703 611

CLASSIFICATION TESTS WITH CIVILIAN CALIBRATION OF NAVY POSTGRADUATE SCHOOL. .

UNCLASSIFIED

and Initial Results.*

INTELLIGENCE TESTS.*

UNIVERSITIES
Validation of the 1961 navy
college aptitude test.
AD- 619 169

*NAVIGATORS

DEVELOPMENT OF THE AIR FORCE
PRECOMMISSION SCREENING TEST-62*

AD- 269 527

*OFFICER PERSONNEL
PREDICTION OF OCS ACADEMIC
GRADES AND POST-OCS PERFORMANCE OF
JUNIOR OFFICERS WITH A BATTERY OF
SPEEDED TESTS*
AD- 255 866
ANALYSIS OF RELATIVE WEIGHTS
ASSIGNED TO OCS PREDICTORS AND OCS
COURSE GRADES*

ASSIGNED TO UCS PREDICTURS AND UC COURSE GRADES*

ND- 255 867

The Testing of a Regression

Model for Predicting the

Progression Index in Various Army APTITUDE TESTS

Development and standardization
of the Air Force Officer Qualifying
Test64.
AD- 600 782

DEVELOPMENT OF PERSONALITY TESTS
FOR NAVAL OFFICER SELECTION. I.
ANALYSIS OF U. S. NAVAL ACADEMY
CRITERION OF APTITUDE FOR SERVICE.*
AD- 710 018
DEVELOPMENT AND STANDARDIZATION
OF THE AIR FORCE OFFICER QUALIFYING

Development and Standardization of the Air Force Officer Qualifying Test Form L.*

TEST FORM K,+

SELECTION
Geographical differences in responses to a test of vocational

interests. AD- 626 612 *PARAMEDICAL SCIENCES
The Recruit Temperament Survey
(RTS) as a Predictor of Paramedical Effectiveness Criteria,*
AD-A038 366

*PERFORMANCE TESTS
The Measurement of Operator
Capacity by Manipulation of DualTask Demands.*
AD-A006 352

*PERFORMANCE(HUMAN)
Nonverbal and Culture Fair
Performance Procedures. II.
Initial Validation.*
AD- 770 550

AD= 770 550
Task Difficulty and Task
Aptitude Benchmark Scales for the
Administrative and General Career
Fields.*

A Cognitive Intervention for Improving the Estimate of Latent Ability Measured from Analogy Items.*

AD- 772 626
Validation of a Battery of

Validation of a Battery of Performance Tests for Prediction of Aerospace Ground Equipment Course Grades.*

AD- 774 586
Nonverbal and Culture Fair Performance Prediction Procedures.

AD- 779 912
An Evaluation of Computerized
An Evaluation of Computerized
Tests as Predictors of Job
Performance in Three Navy Ratings:

AD- 782 527

Methods for Predicting JobAbility Requirements: II. Ability
Requirements as a Function of
Changes in the Characteristics of
an Electronic Fault-Finding task.*
AD- 785 868

D-14 UNCLASSIFIED ZOMO9

Basic Attention Measures as

Predictors of Success in Flight Training.* AD-A006 385 Methods for Predicting Job-Ability Requirements: III. Ability Requirements as a Function of Changes in the Characteristics of a Concept Identification Task.*

Methods for Predicting Job-Ability Requirements: IV. Task Characteristics, Ability Requirements, and Problem-Solving Strategies.*

An Evaluation of Computerized Tests as Predictors of Job Performance: II. Differential Validity for Global and Job Element Criteria.*

AD-A020 867

An Information Processing
Approach to Performance Assessment.

I. Experimental Investigation of an Information Processing Performance Battery.*

ANALYSIS OF VARIANCE Suitability of Using Common Selection Test Standards for Negro and White Airmen,*

Reprint: Acquisition of Pursuit Tracking Skill under Extended Training as a Joint Function of Sex and Initial Ability.

APTITUDE TESTS

Toward the Establishment of
Noncognitive Factors through
Literature Search and
Interpretation.*

ARMY PERSONNEL
Performance in Five Army Jobs by
Men at Different Aptitude (AFQT)
Levels: II. Development and
Description of Instruments.*

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AD		

Ability Requirements: I. Ability Changes in the Characteristics of an Auditory Signal Identification Requirements as a Function of Methods for Predicting Job-AUDITORY ACUITY AD- 769 073 COMPUTER PROGRAMMING An Empirical Study of Computer-Administered Two-Stage Ability

Measured Mental Ability, Service Effectiveness of Selection and Classification Testing.* AD- 768 168 School Achievement and Performance,* **EFFECTIVENESS** 10- 720 359

A NON-COGNITIVE TEST BATTERY AS A PREDICTOR OF CLASS 'A' SCHOOL MATHEMATICAL PREDICTION ERFORMANCE. .

PREDICTION OF SECOND-YEAR GRADE-POINT AVERAGES AT THE U. S. NAVAL POSTGRADUATE SCHOOL.* AD- 709 794 AD- 704 491

AD- 271 148

Probability of Graduate Success.* A Logistic Quantal Response Model for Estimating the

Performance in the F-4 Aircraft,* he Prediction of Pilot

TESTS AS PREDICTORS OF PERFORMANCE IN 87 CLASS 'A' ENLISTED SCHOOLS 1964-1966). PREDICTIONS

Validity of Armed Services
Vocational Aptitude Battery, Form
1, to Predict Technical School Success, * AD- 767 578

Learning by Listening. Association Strength and Mental Reprint: Effects of Speech Rate, Selection Difficulty, STATISTICAL ANALYSIS Aptitude on AD- 762 692

DIFFERENTIATION AND INTEGRATION ON CAREER DEVELOPMENT* *PERSONALITY

Noncognitive Factors through Toward the Establishment Literature Search and Interpretation.* FACTOR ANALYSIS AD- 765 843

ō

A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA* FACTORIAL STRUCTURE OF BASIC TRAINING PERFORMANCE VARIABLES+ *PERSONALITY TESTS AD- 265 824

APTITUDE BATTERY AGAINST SUCCESS IN VALIDATION OF ARMY FIXED-WING DEVELOPMENT OF EXPERIMENTAL SELECTING THE FIRST-LINE ROTC FLIGHT TRAINING* SUPERVISOR* * PERSONNEL

SELECTORS FOR ARMY HELICOPTER PILOT TRAINEES--PERSONALITY CONSTRUCTS* THE EVALUATION OF SELECTION SYSTEMS: STATEMENT OF THE PROBLEM AND PROCEDURES FOR SOLVING IT* AD- 265 467

*PERSONNEL MANAGEMENT

RELIABILITY

AD- 282 794

Tests in Predicting Performance at Coast Guard Class A. Schools: I. The Effectiveness of Selection Machinery Technician School,

Yorktown, Virginia. + AD-A023 455

Performance in the F-4 Aircraft,* The Prediction of Pilot NAVAL AVIATION AD- 764 866

men; full regression equations vs. Optimal allocation of enlisted aptitude area scores. OPTIMIZATION AD- 625 224

Test methods for screening enlisted personnel. AD- 602 981

PSYCHOLOGICAL TESTS

Factors Related to Adaptability to Military Service among 1965 TEST CONSTRUCTION (PSYCHOLOGY) Airman Accessions. * AD- 768 328

The Prediction of Job Ability Person-Job Match Preliminary Forecasting Program.* *PERSONNEL SELECTION AD-A030 334

Requirements Using Attribute Data Based upon the Position Analysis Job-Derived Selection: Questionnaire (PAQ).* AD-A035 623 Preliminary Rept.* 4D-A035 624

Services Vocational Aptitude Battery: Forms 8, 9, and 10.* Development of the Armed Validation of Non-Verbal Measures for Selection and Classification of Enlisted Personnel.*

Predicting Success in the AFROTC AD-A039 270

Job-Derived Selection: Follow Scholarship Program. * up Report. * 1D-A041 132

Reprint: Improving the use of Educational Tests as Selection

fools.

Approach to Performance Assessment.

I. Experimental Investigation of an Information Processing Performance An Information Processing Battery.*

Tests for Air Traffic Controllers, * Development of New Selection

Communications Analysis Specialist Analysis Aptitude Test for Selection of Airmen for the Radio Course: Development and Validation. *

VALIDATION OF THE ARMY FIXED-WING APTITUDE BATTERY AGAINST SUCCESS IN ARMY FLIGHT TRAINING* *PILOTS

AD-A051 962

DEVELOPMENT OF EXPERIMENTAL SELECTORS FOR ARMY HELICOPTER PILOT TRAINEES--PERSONALITY CONSTRUCTS+ AD- 263 741

Automated Pilot Aptitude Measurement System.* AD-A018 151

DEVELOPMENT OF AVIATION CLASSIFICATION TEST FORMS 5 AND 6.* Performance in the F-4 Aircraft, + The Prediction of Pilot APTITUDE TESTS AD- 764 866

Decisional Differences among Individuals: A Signal Detection Theory Approach. . NO- 765 732 SELECTION

EVALUATION OF TESTS FOR IMPROVEMENT OF PROGRAMMER TRAINEE SELECTION, * *PROGRAMMERS AD- 661 609 SELECT 10N

* PSYCHOACOUSTICS LANGUAGE

A Psychoacoustic Investigation of Foreignness.* AD- 722 676 *PSYCHOLOGICAL TESTS
EQUIPERCENTILE CONVERSIONS AS A
FUNCTION OF TRAINING IN A TECHNICAL CURRICULUM*

AIR FORCE ACADEMY SELECTION VARIABLES AS PREDICTORS OF SUCCESS IN PILOT TRAINING* AD- 263 982 AD- 257 428

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT* AD- 282 428

Shallow Habitat Air Dive (SHAD-I): Psychological Screening of Divers as Subjects for Long Duration Saturation Experimentation. * AD-A002 707

Applications of Computerized Adaptive Testing. *

NAVAL AVIATION

Decisional Differences among Individuals: A Signal Detection Test methods for screening PERSONNEL MANAGEMENT enlisted personnel. Theory Approach.* AD- 765 732

A Computer Software System for Adaptive Ability Measurement.* * PSYCHOMETRICS

AD- 602 981

UNCLASSIFIED

Requirements Using Attribute Data Based upon the Position Analysis The Prediction of Job Ability Questionnaire (PAQ). * *PSYCHOMOTOR TESTS AD-A035 623

PERFORMANCE (HUMAN) *READING

Diver First Class Reading Ability.*

AD- 763 347

EMPLOYED IN ARITHMETIC REASONING MEASUREMENT OF MENTAL SKILLS *REASONING

AD- 266 864

SYSTEMS: STATEMENT OF THE PROBLEM AND PROCEDURES FOR SOLVING IT* THE EVALUATION OF SELECTION *RECRUITING

LOW-APTITUDE AIRMEN WAS CONDUCTED FOR THE PREDICTION OF SUCCESS AND ADDITIONAL SCREENING TECHNIQUES. EXAMINATION OF THE PERFORMANCE CHARACTERISTICS OF A GROUP OF AD- 282 794 AD- 290 545

U. S. Army Selection Center Evaluation Study.* ARMY PERSONNEL AD- 767 279

The Recruit Temperament Survey medical Effectiveness Criteria, * (RTS) as a Predictor of Para-AD-A038 366 *RECRUITS

Predicting Success in the AFROTC *RESERVE OFFICER TRAINING CORPS Scholarship Program. . AD-A041 132

Simulation Studies of Two-Stage Ability Testing. * AD-A001 230 *REVIEWS

Conventional or Adaptive.+ Ability Measurement: APTITUDE TESTS AD- 757 788

SELECTION TESTS FOR ARMY OPERATORS OF HEAVY AND LIGHT MOTOR SELECTING THE FIRST-LINE SUPERVISOR* VEHICLES* · SELECT ION

DEVELOPMENT OF EXPERIMENTAL SELECTORS FOR ARMY HELICOPTER PILOT TRAINEES -- PERSONALITY CONSTRUCTS+ AD- 265 467

THE EVALUATION OF SELECTION SYSTEMS: STATEMENT OF THE PROBLEM AND PROCEDURES FOR SOLVING IT+

INVESTIGATIONS ON BACKGROUND AND PREFERENCE INFORMATION FOR PREDICTING SUCCESSFUL COMPLETION OF FIRST-TERM OF ENLISTED

Ability Estimation and Item Calibration Using the One and Three Parameter Logistic Models: A Comparative Study.* *SKILLS

INVESTIGATIONS ON BACKGROUND AND PREFERENCE INFORMATION FOR PREDICTING SUCCESSFUL COMPLETION OF FIRST-TERM OF ENLISTED PERSONNEL. 10- 289 620 *SOCIOLOGY

Aptitude Battery (ASVAB) Form 5: High School Norming and Armed Services Vocational Standardization. . +STANDARDIZATION AD-A034 323

*STUDENTS

Secondary Schools from the General Technical Composite on the Armed Predicting Academic Success in Services Vocational Aptitude Battery.* AD-A005 288

Reprint: Acquisition of Understanding and Skill in Relation to Subjects' Preparation and Meaningfulness of Instruction. AD-A015 416

SELECTION OF FOREIGN STUDENTS
FOR TRAINING IN THE UNITED STATES
AIR FORCE,* AD- 683 725 SELECTION

INTERRELATIONSHIPS BETWEEN
APTITUDE TESTS SCORES, PERFORMANCE
IN SUBMARINE SCHOOL, AND SUBSEQUENT
DETERMINED BY RATINGS AND TESTS RESEARCH ON THE DEVELOPMENT OF SHIPBOARD PERFORMANCE MEASURES+ *SUBMARINE PERSONNEL AD- 045 271

BATTERY: PREDICTION OF PERFORMANCE ABOARD NUCLEAR POWERED SUBMARINES* DEVELOPMENT OF A NON-COGNITIVE AVERAGE NAVY BASIC BATTERY
APTITUDE TEST SCORES FOR ENLISTED
SUBMARINERS.* AD- 256 816 SELECTION

Predicting Performance in Air Force Classification Typology for Technical Training. AD-A039 268 *TECHNICIANS

Feasibility of abbreviated forms for the enlistment screening test. *TEST CONSTRUCTION (PSYCHOLOGY) APTITUDE TESTS

0-17 UNCLASSIFIED AD- 602 979

20M09

A Study of Computer-Administered Stradaptive Ability Testing.* *TEST CONSTRUCTION(PSYCHOLOGY) AD-A018 758

Multiple-Purpose Prediction Systems VARSEL: Variable Selection for in the Absence of External Criteria.*

Correlational Analysis, ASVAB Form Armed Services Vocational Aptitude Battery (ASVAB) 2 versus ASVAB Form 5.* AD-A032 593 AD-A025 328

Services Vocational Aptitude Battery: Forms 8, 9, and 10.* Development of the Armed AD-A039 270 Accuracy of Perceived Test-Item AIR FORCE TRAINING Difficulties.* AD-A041 084

Development and Standardization of the Air Force Officer Qualifying Test Form L. * APTITUDE TESTS AD- 754 849

Development and Evaluation of a New ACB and Aptitude Area System.* Bud officer aptitude test forms 1 Development of the reserve AD- 479 819 AD- 751 761

ELECTRONIC TECHNICIANS
Task Difficulty and Task
Aptitude Benchmark Scales for the Mechanical and Electronics Career AD- 754 848 Fields,*

SOME APPLICATIONS OF PROCEDURES FOR ALLOCATING TESTING TIME. . MATHEMATICAL MODELS AD- 682 223

Factors Related to Adaptability PERSONNEL MANAGEMENT

to Military Service among 1965 Airman Accessions.* AD- 768 328

THE ARMED SERVICES VOCATIONAL APTITUDE BATTERY.* SELECTION

APTITUDE TESTS
Reprint: Acquisition of Pursuit
Tracking Skill under Extended
Training as a Joint Function of Sex
and Initial Ability. AD- 755 016 .TRACKING

DEVELOPMENT OF EXPERIMENTAL
SELECTORS FOR ARMY HELICOPTER PILOT
TRAINEES--PERSONALITY CONSTRUCTS* AIR FORCE ACADEMY SELECTION VARIABLES AS PREDICTORS OF SUCCESS IN PILOT TRAINING* *TRAINING

PERFORMANCE (HUMAN)
Curricular and specific transfer
to problem solving ability. *TRANSFER OF TRAINING AD- 265 467

A Concurrent Validity Study Relating the Armed Services Vocational Aptitude Battery to Success in High School Vocational-Technical Courses.* A Word Knowledge Item Pool for Adaptive Ability Measurement.* AD- 781 894 .VOCATIONAL GUIDANCE

*VOCABULARY

Representative Normative Tables for the Armed Services Vocational Validation of ASVAB-2 Against Civilian Vocational-Technical High School Criteria.* AD-A023 118

Aptitude Battery (Form 5).* AD-A032 109

Person-Job Match Preliminary Forecasting Program.* AD-A030 334 *VOLUNTEERS

UNCLASSIFIED

SOMOS

COURSE GRADES AD- 255 867

Calibration Using the One and Three Parameter Logistic Models: A

comparative Study.

AD-A047 943

Ability Estimation and Item

Conventional

Ability Measurement:

or Adaptive.

AD- 757 788

Accuracy of Perceived Test-Item

Difficulties. AD-A041 084

REPETITIVE TESTING ON FIGURE MATRIX AN ANALYSIS OF THE EFFECTS OF TEST SCORES AD- 271 386

Applications of Computerized Adaptive Testing. AD-A038 114 APTITUDE AND PERFORMANCE DATA OF FLIGHT AND NAVAL AVIATION OFFICER STUDENTS BY PROCUREMENT SOURCE AD- 265 558

6 Intramodal and Intermodal Form Aptitude Level and Performance Discrimination Tasks

APTITUDE TESTS FOR ARMY MOTOR VEHICLE OPERATORS AD- 006 957 AGE NORMS FOR HIGH SCHOOL SENIORS AND AIR FORCE TRAINING GROUPS, AD- 619 346

AIR FORCE ACADEMY SELECTION
VARIABLES AS PREDICTORS OF SUCCESS

IN PILOT TRAINING

AD- 263 982

Acquisition of Understanding and Skill in Relation to Subjects' Preparation and Meaningfulness of

Instruction, AD-A015 416

Skill under Extended Training as a Joint Function of Sex and Initial

Ab- 755 016

Icquisition of Pursuit Tracking

THE ARMED SERVICES VOCATIONAL APTITUDE BATTERY. AD- 706 832

A Review and

Airman Classification Batteries

from 1948 to 1975:

Evaluation.

4D-A026 470

Armed Services Vocational Aptitude Battery (ASVAB) Correlational Analysis, ASVAB Form 2 versus ASVAB AD-A032 593 Form 5.

Selection of Airmen for the Radio Communications Analysis Specialist

Analysis Aptitude Test for

Development and

Validation.

AD-A051 962 Course:

Armed Services Vocational Aptitude Battery (ASVAB Form 5): Comparison with GATB and DAT Tests. AD-A035 305 Armed Services Vocational Aptitude Battery (ASVAB) Form 5: High School Norming and Standardization. AD-A034 323

THE CLASSIFICATION OF BASIC AIRMEN,

INCREASING THE VALIDITY OF THE AIRMAN QUALIFYING EXAMINATION FOR

AN ANALYSIS OF CERTAIN METHODS FOR

ANALYSIS OF RELATIVE WEIGHTS
ASSIGNED TO OCS PREDICTORS AND OCS

Armed Services Vocational Aptitude

Battery Development (ASVAB Forms 5,6, and 7). AD-A037 522

ARMY SCHOOL TRAINING PERFORMANCE EM SCORING LOW ON AFQT. THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT AD- 609 035

Automated Pilot Aptitude Measurement System. AD-A018 151

AD- 282 428

AVERAGE NAVY BASIC BATTERY APTITUDE TEST SCORES FOR ENLISTED SUBMARINERS. AD- 663 517

AWARENESS OF INTEREST IN BOYS IN GRADES SEVEN AND EIGHT AD- 288 427

Predictors of Success in Flight Basic Attention Measures as Training. AD-A006 385 CALIBRATION OF AIR FORCE SELECTION TESTS TO PROJECT TALENT NORMS AD- 285 185 CALIBRATION OF NAVY CLASSIFICATION TESTS WITH CIVILIAN INTELLIGENCE AD- 710 186 TESTS.

Classification Typology for Predicting Performance in Air Force Technical Training AD-A039 268

A Cognitive Intervention for Improving the Estimate of Lat. Ability Measured from Analogy

Comparability Study of Armed

Services Vocational Aptitude Battery Scores from Answer Sheet and Answer Card Administration. AD- 775 048

Comparative Cluster Analysis of Patterns of Vocational Interest. AD- 731 040

COMPARATIVE EVALUATION OF A
STANDARD FACE CURTAIN AND AN
EXPERIMENTAL D-RING LOCATED ON THE
SEAT FRONT AS MODES OF ACTUATING
EJECTION DURING EXPOSURE TO
ACCELERATION: LETTER REPORT
CONCERNING

A COMPARATIVE STUDY OF AIR TRAFFIC TRAINEE APTITUDE-TEST MEASURES INVOLVING NAVY, MARINE CORPS AND FAA CONTROLLERS, COMPARISON OF AIR FORCE APTITUDE INDEXES WITH CORRESPONDING TALENT TEST COMPOSITES, AD- 420 555

Comparison of ASVAB Test-Retest Results of Male and Female Enlistees. AD-A029 517 A Computer Software System for Adaptive Ability Measurement. AD- 773 961 A Concurrent Validity Study
Relating the Armed Services
Vocational Aptitude Battery to
Success in High School Vocational—
Technical Courses. Addendum.
AD-A014 979

Relating the Armed Services
Vocational Aptitude Battery to
Success in High School Vocational—
Technical Courses.

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MISSILEMEN MAINTAINING THE MARK 15
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QUALIFICATION TEST 7 AND 8.

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OPTIMAL ALLOCATION OF ENLISTED MEN: FULL REGRESSION EQUATIONS VS. APTITUDE AREA SCORES. AD- 625 224

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FORM WHOF FOR PREDICTING AVERAGE
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TRAINING GRADES-1961,
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SECTION C INTELLIGENCE TESTS

consistent across all three studies.

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOG

PAG43 770 5/10 5/7
VALE UNIV NEW HAVEN DEPT OF PSYCHOLOGY AD-A043 770

Intelligence and the Language-Bound

3

DESCRIPTIVE NOTE: Technical rept., JUL 77 31P Day, Ruth S.; CONTRACT: NO0014-75-C-0976

UNCLASSIFIED REPORT

3 3 DENTIFIERS: Cognition, Individual differences, Language bound intelligence, Language optional intelligence, WUNR154378 ESCRIPTORS: *Intelligence, *Psycholinguistics, Mental ability, Information processing, behavior, Comparison, Auditory perception, Accuracy, Aptitude tests, Intelligence tests Hypotheses, Performance(Human), Verbal

overall intellectual ability. However, other aspects of the data suggested that the two groups may suggests that the phenomenon reflects a language-binding effect; language-bound (LB) individuals perceive and remember events in language terms while language-optional (LO) individuals can use language structures or set them aside depending on task samples of subjects classified as LB or LO were studied, with about 50 subjects in each. There were experiments could be based on a number of different principles. The current working hypothesis interpretation, that the two types of individuals no statistically reliable differences in overall schieve intelligent behavior in different ways. Scholastic Aptitude Test or a standard intelligence test. Thus it appears that the LB-LO distinction is not based on differences in differ in overall intelligence levels. Three demands. The author explored an alternative scores between LBs and LOs for either the Individual differences in dichotic fusion

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIOGRAPHY

MISSOURI UNIV-KANSAS CITY EDUCATIONAL PSYCHOLOGY AND RESEARCH DIV

The Relationship between Reasoning Ability and Gain in Reading Ability.

3

DESCRIPTIVE NOTE: Final rept. 1 Jan 75-31 Aug 77, Carver, Ronald P. : AUG 77 89P Car CONTRACT: N00014-75-C-0958

RR04204 PROJ:

RR0420401

UNCLASSIFIED REPORT

IDENTIFIERS: Programmed prose, Plato 4 computer terminal, RAVEN progressive matices test, Reasoning ability, Reading ability, PE61153N. *Reasoning, *Reading, Learning, Intelligence, Computer aided instruction, Students, Intelligence tests DESCRIPTORS:

WUNR150369

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called programmed prose, which allows regular reading to determine how reasoning ability, or intellectual capacity, affects gain in reading ability. The theory underlying the present research was that poor readers consist of two types—those who read poorly because of deficits in their reasoning ability and those who read poorly because of deficits in reading practice, or experience. The effect of reading practice upon reading ability was investigated using material to be automatically converted into training because they purportedly had high reasoning ability, as indicated by high scores on the Raven to administer the programmed prose passages. Each student was given 50 to 70 hours of individualized instruction on the terminal. There were three each study. All students were at about grade level 3 in reading ability prior to the instruction. One half of the students in each study were selected The general objective of the proposed research was separate studies with six high school students in high school students who read poorly. The reading training involved a recently developed technique, material. A PLATO IV computer terminal was used Progressive Matrices Test; the other one half had low scores on this test. The results were

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AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX 5/10 AD-A042 689

Navigator-Observer Selection Research: Development of New Air Force Officer Qualifying Test Navigator-Technical Composite. DESCRIPTIVE NOTE: Final rept. Aug 72-Apr 77, MAY 77 15P Valentine, Lonnie D. , Jr; MAY 77 15P 1 REPT. NO. AFHRL-TR-77-36

7719 TASK: 12 PROJ:

UNCLASSIFIED REPORT

3 3 Performance(Human), Predictions, Validation IDENTIFIERS: Cognition, Air Force officer qualifying test, Officer candidates, Undergraduate training, WUAFHRL77191209, PE62703F Students, Qualifications, Aptitude tests, Psychological tests, Intelligence tests, Personality tests, Officer personnel, Air Force personnel, Air Force testonnel, Air Force testonnel, Air Force testonnel, Air Force training, SESCRIPTORS:

3 undergraduate navigator trainees, a large scale study was conducted to evaluate various experimental tests for possible use in a complete revision of the Air Force Officer Qualifying Test (AFOQT's)
Navigator-Technical composite. Forty-five
noncognitive test scales and 17 experimental
cognitive tests were administered to 507 students at noncognitive materials, the only device with unique improvements in prediction over that achieved with the present AFOQT. Content of a revised AFOQT Navigator-Technical composite is recommended. entered undergraduate navigator training (UNI). Analyses of these data -- along with AFOQT data -- against training success indicated that, of the experimental cognitive tests provided substantial Toward the objective of improving selection of follow-up work with this is recommended. The the Officer Training School who subsequently validity was the Personality Research Form;

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

STANFORD UNIV CALIF SCHOOL OF EDUCATION 5/10 AD-A039 810

Theory and Method for Research on Aptitude Processes: A Prospectus.

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Snow, Richard E. ; DESCRIPTIVE NOTE: Technical rept., TR-2

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N00014-75-C-0882 REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

Learning, Mental ability, Information processing, Teaching methods, Test construction(Psychology), Psychological tests, Hypotheses IDENTIFIERS: *Cognition, Individual differences, Experimental design, Performance(Human), Short range(Time), Aptitude tests, Intelligence tests, DESCRIPTORS: *Aptitudes, *Memory(Psychology), Factor analysis, Intelligence, Humans, Short term memory, WUNR154376

3 3

> views of cognitive processes are examined in relation to individual difference constructs and the methods available to and needed by research on aptitudes as reviewed to demonstrate the complementary strengths and weaknesses of experimental and correlational methods and concepts. A coordinated approach to the relation to cognitive process models and research thereon. Studies of short-term memory processes are Individual difference constructs are discussed in cognitive processes are discussed. Contemporary used to examine their reliability and validity. study of aptitude as information processing is The theoretical and methodological concepts suggested. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOG

-A034 554 5/10 6/5 5/9 SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX AD-A034 554

Intelligence Test Performance of Vietnam Prisoners of War Two Years Post-Return,

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Phillips, James K. . III: Green, Jesse L.; REPT. NO. SAM-TR-76-245 PROJ: 7755

Availability: Pub. in Aviation, Space, and Environmental Medicine, v47 n11 p1210-1213 1976. UNCLASSIFIED REPORT

3 3 DESCRIPTORS: +Intelligence tests, +Prisoners of war, Vietnam, Reprints IDENTIFIERS: Neuropsychiatry, WUSAM77550412, PE62202F

3 performance difference were noted among different age Results are reported as baseline data and discussed could be attributed to such differences at persent. in the context of development of neuropsychological Seventy-one Air Force Repatriated Prisoners of War (RPW) were administered the Wechsler Adult Intelligence Scale (WAIS) as part of their followup medical evaluation. Results showed the RPW group to be very homogenous in their performance, of Superior Intelligence, and functioning quite adequately on an intellectual basis, with little indication of cerebral groups of RPMs, but little clinical significance difficulties encountered by POMs from previous dysfunction. Some statistically significant Wars. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

0-4031 823 5/10 5/9 CHIEF OF NAVAL EDUCATION AND TRAINING SUPPORT PENSACOLA AD-A031 823

Measurement of Reading Proficiency among Navy Recruits.

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Biersner, Robert J. ; DESCRIPTIVE NOTE: Final rept., CNETS-1-76 43P APR 76 REPT. NO. CNI

UNCLASSIFIED REPORT

personnel, Intelligence tests, Proficiency, Skills, English language, Aptitude tests, Classification, Race(Anthropology)
IDENTIFIERS: Remedial reading, Visuospatial *Reading, *Recruits, *Naval DESCRIPTORS:

Derformance

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> reading achievement attained by the remedial recruits as measured by pre- and post-test performance on the comprehension subtest of the Gates-MacGinitie including the General Classification Test (GCT), Mechanical Test (MECH), Arithmetic Test (ARI), Clerical Test (CLER), Raven Progressive Matrices (RPM), age, education level, race, speaking English as a native or second language, modification of hand use, and measures of These tests and measures were also associated with handedness and eyedness were used to differentiate Several verbal and nonverbal tests and measures, between a group of recruits enrolled in a Navy remedial reading program (RR group) and a nonremedial comparison recruit group (C group).

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Reading Test.

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

NANDESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A020 961

A Simulation Study of Stradaptive Ability festing.

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DESCRIPTIVE NOTE: Research rept., DEC 75 56P Vale, C. David ; Weiss, David

T: N00014-76-C-0243 RR042-04, NR-150-382 NO. RR-75-6 PROJ:

RR042-04-01

UNCLASSIFIED REPORT

Response(Biology), Scoring, Computerized simulation, Mental ability, Cornelation techniques, Discrimination, Accuracy, Comparison, Data processing, Bayes theorem Assessment, Statistical analysis, Minicomputers, *Intelligence tests, Adaptive systems, Computer applications, Difficulty, Ranking, Automation, *Test construction(Psychology), On line systems, Man computer interface, DESCRIPTORS:

DENTIFIERS: +Stradaptive ability testing Abilities

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(stratified adaptive) test were administered to thousands of simulated subjects by minicomputer. Characteristics of the three tests using several scoring techniques were investigated while varying the discriminating power of the items, the lengths of the tests, and the availability of prior information about the testee's ability level. The tests were evaluated in terms of their correlations with conventional test correlated progressively less with underlying ability, the amount of information they provided about ability, and the equiprecision of ability as item discriminating power was increased characteristic of scores on the stradaptive test; A conventional test and 2 forms of a stradaptive neasurement as items became more discriminating; (3) These undesirable characteristics were not provided increasingly poorer equiprecision of measurement they exhibited. Among the major findings were: (1) Scores on the beyond alpha=1.0; (2) The conventional test

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD-A014 315 5/10 5/9 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

AFQT: Historical Data (1958-1972).

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Karpinos, Bernard D. DESCRIPTIVE NOTE: Special rept., 33P 25

HUMRRO-SR-ED-75-12 REPT. NO.

MDA903-74-C-0005

UNCLASSIFIED REPORT

Military personnel, Aptitude tests, Education, Ratings, Geography, Test construction(Psychology) DESCRIPTORS: *Intelligence tests, *Recruits,

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fest (AFQT) values, but to identify as well the factors that effected such changes. Data presented The purpose of the study was not only to indicate changes in the Armed Forces Qualification

cover 14.5 years, and relate to preinductees who were selected by the Selective Service System for first time examination to determine their moral, mental, and medical fitness for military service. 'Preinductees' replaces the term 'draftees' used in previous studies. The study provides detailed data on distribution by mental category Mean

3 Percentile AFQT scores, by race and geographic area. The racial and geographic differences, with respect to distributions by educational attainment (years of school completed), over the 14-year period relate to the United States as whole.

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

APPLIED PSYCHOLOGICAL SERVICES INC MAYNE PA SCIENCE ND-A009 159

3 identification and Measurement of Intellective Load Carrying Thresholds.

DESCRIPTIVE NOTE: Final rept., nec. 74 112P Siegel, Arthur I. :Williams, Allan R. , Jr; NTRACT: F44620-73-C-0049

TR-75-0593 AFOSR CONTRACT: MONITOR:

UNCLASSIFIED REPORT

Perception(Psychology), Scaling factors, Work, *Awareness. *Threshold effects, fransfer functions, Information processing, DESCRIPTORS:

Intellectual functions, Intelligence tests IDENTIFIERS: Intell Cognition

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3 intellective load carrying capability for selected intellective functions is identifiable and measurable. Intellective load carrying failure was defined as the point at which a change in transfer function components occurs as a tracking and a scaled The transfer function components included amplitude ratio and phase lag as defined by the frequencyintellective function were concomitantly performed. The scaled intellective functions were drawn from Guilford Structure-of-Intellect model. The conjecture was investigated that the response analytic method.

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO AD-A005 242

The Neuropsychiatric Implications of Illiteracy: 20 Years Later,

3

Holberg, Anne L. ; Hysham, C. J. ; Berry, Newell H. REPT. NO. NMNRU-74-20

Availability: Pub. in Jnl. of Clinical Psychology, v30 n4 p533-535 Oct 74. UNCLASSIFIED REPORT

*Learning, Psychiatry, Reading, Writing, Recruiting, Courses(Education), Military training, Attrition, Performance(Human), Intelligence tests, Reprints
IDENTIFIERS: *Illiteracy, Military Discharges, *Mental disorders, *Intelligence, DESCRIPTORS:

Military Discipline

3 3

> time period. The percentages of first year neuropschiatric and disciplinary discharges for men assigned to ARI was 17.98 which was quite similar to the percentages of 18.83 and 18.10 for two samples of illiterates reported by Hunt and Wittson. The attrition percentages for the control sample of illiterates are a four times greater neuropsychiatric risk than literates and should not be inducted into replicate a study of the neuropsychiatric implications of illiteracy conducted by Hunt and Wittson in 1951. First-year discharge information was collected for (1) 1518 recruits who had been assigned to an academic remedial training division (ART) from 1967 to 1972 at the Naval Training Center. San Diego and for (2) 1520 recruits who had not been assigned to ART during the same valid over twenty years later and these are that 1520 men, on the other hand, was 1.71. The conclusions drawn by Hunt and Wittson are still The purpose of this research project was to

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the military unless a manpower shortage exists.

(Author)

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL MEDICAL RESEARCH UNIT NO 2 TAIPEI (TAIWAN) 5/10 AD-A003 067

A Six-Year Longitudinal Study of Chinese Children's Responses to Raven's Progressive Watrices.

 $\widehat{\Xi}$

DESCRIPTIVE NOTE: Collaborative studies, AUG 74 5P Hsu,Chen-Chin;See,Richard 50

REPT. NO. NAMRU-2-CS-089 : Lin, Chia-Chin ;

TASK: MR041.09.01 MR041.09 PROJ:

Medical Association, v73 ng p459-460 Aug 74. SUPPLEMENTARY NOTE: English summary of Chinese text which is available upon request to NAMRU-2. Availability: Pub. in Jnl. of the Formosan UNCLASSIFIED REPORT

DESCRIPTORS: *Learning, Intelligence tests, Children, Taiwan, Education, Statistical distributions. Males, Females. Time series analysis, Sociometrics, Translations, Reprints IDENTIFIERS: Educational psychology

EE

Reprint: A Six-Year Longitudinal Study of Chinese Children's Responses to Raven's Progressive Matrices.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOG DDC REPORT BIBLIDGRAPHY AD- 805 311

1-805 311 5/10 WASHINGTON UNIV ST LOUIS MO DEPT OF PSYCHOLOGY THE RELATION OF INTELLIGENCE TO THE ABILITY TO

LEARN.

3

DESCRIPTIVE NOTE: Technical rept., Nonr-816(14) OCT 66 40P REPT. NO.

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*LEARNING, *PSYCHOLOGICAL TESTS),
CORRELATION TECHNIQUES, REASONING, MEMORY(PSYCHOLOGY),
VERBAL BEHAVIOR, FACTOR ANALYSIS, ANALYSIS OF VARIANCE,
MOTIVATION, INTELLIGENCE TESTS, NAVAL PERSONNEL,
QUESTIONNAIRES, PERFORMANCE(HUMAN), APTITUDE TESTS,
EFFECTIVENESS, PROGRAMMED INSTRUCTION
IDENTIFIERS: APTITUDE, INTELLIGENCE

= relationship between seven learning tasks and a measure of intelligence. Residual gain, defined as final score residualized with respect to initial score, was used as a measure of learning. Two hundred sixty-eight U. S. Navy enlisted men served as subjects. Results of this investigation indicate that a factor of general learning ability either non-existent or of little importance. This study reports an investigation of the (Author)

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ZOMOS DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

1- 805 294 5/10 WASHINGTON UNIV ST LOUIS MO DEPT OF PSYCHOLOGY

THE RELATION BETWEEN TWO MEASURES OF LEARNING: RESIDUAL GAIN AND COMMON POINTS OF MASTERY.

Carver, Ronald Paul DESCRIPTIVE NOTE: Technical rept., Nonr-816(14) 25P TR-11 REPT. NO.

UNCLASSIFIED REPORT

CORRELATION TECHNIQUES, INTELLIGENCE TESTS, PERFORMANCE(HUMAN), STATISTICAL ANALYSIS, TABLES(DATA), LEARNING CURVES, RELIABILITY, TEST METHODS (*LEARNING, PSYCHOLOGICAL TESTS), DESCRIPTORS:

The purpose of this study was to compare two different gain measures 'residual gain' and 'common points of mastery.' On a learning test administered to 874 Navy enlisted men it was found that there was a low but significant relationship relationship was noted between either of the gain measures and verbal intelligence or numerical between the two measures. It is possible that the unreliability of the measures used in this study conceals a sizeable relationship. No significant aptitude or mechanical aptitude. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS 5/10

The Influence of Test Context on Item Difficulty.

3

3

Whitely, Susan E. ; Dawis, DESCRIPTIVE NOTE: Technical rept., 17P 73

REPT. NO. TR-3009 CONTRACT: N00014-68-A-0141-0003 PROJ: NR-151-323 Rene V. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Test construction(Psychology),
*Psychological tests, *Verbal behavior, Analogies,
Intelligence tests, Experimental data, Analysis of
variance, Theory, Validation
IDENTIFIERS: *Difficulty levels, *Context, *Item

3 3

analysis, Verbal analogies

contexts and that context difficulty was a factor for 27 percent of the items. The general applicability of item-parameter-invariant models is questioned by the finding of contextual interaction for parameter difficulties are stable over varying test contexts. The current emphasis on information-efficiency and individualized selection of items has made context stability a critical assumption. The simple item Item analysis techniques commonly assume that item verbal analogy items were compared over seven internally consistent analogy tests. The results indicate that 60 percent of the items varied over difficulties and Rasch log easiness values of 15 estimates. (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

MASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY AD- 756 657

Participative Management, Member Intelligence, and Group Performance.

3

DESCRIPTIVE NOTE: Technical rept.,

Blades, Jon W. ; Fiedler,

Fred E. ;

JAN 73 22P

REPT. NO. TR-73-40 CONTRACT: N00014-67-A-0103-0012, N00014-67-A-0103-

PROJ: NR-177-472, NR-177-473

UNCLASSIFIED REPORT

33 ESCRIPTORS: (*GROUP DYNAMICS, INTELLIGENCE TESTS), (*PERSONALITY, *LEADERSHIP), DECISION MAKING, MOTIVATION IDENTIFIERS: *PARTICIPATIVE MANAGEMENT DESCRIPTORS:

3 only relationship-motivated (high LPC) leaders utilized the intellectual resources of their members. Data from three separate field studies showed that the contribution of member intelligence to group performance depends to a substantial degree on the personality of the leader. Studies of 51 mess halls, 86 volunteer public health teams, and 27 combat engineer squads supported the hypotheses that decision-making functions with members of their presumably because of their tendency to share group. (Author)

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SEARCH CONTROL NO. ZOMD6 DDC REPORT BIBLIDGRAPHY

CENTER FOR NAVAL ANALYSES ARLINGTON VA INST OF NAVAL STUDIES AD- 752 500

Comparison of Navy and Air Force Administrative and Disciplinary Dischanges,

3

Stephan, Robert A. ; Carroll, Hugh E. ;Brown, Nicholas ; PT. NO. INS-Research Contrib-218 39P

CONTRACT: N00014-68-A-0091 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*MILITARY PERSONNEL, *ATTRITION), NAVAL PERSONNEL, AIR FORCE PERSONNEL, INTELLIGENCE TESTS, EDUCATION, PERSONNEL MANAGEMENT, PERFORMANCE(HUMAN), MILITARY LAW, COSTS, STATISTICAL DATA IDENTIFIERS: MARGINAL PERSONNEL

33

examined to determine the effect of mental group and education mix. Navy and Air Force disciplinary and administrative discharge rates are compared. Costs associated with the administration of the methodology is presented for determining the cost of Navy administrative and disciplinary loss rates are Navy's disciplinary system are developed. A Navy first termers discharged prior to the expiration of active obligated service. (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J AD- 746 129

Estimating True Measurements from Fallible Measurements (Binomial Case) -- Expansion in a Series of Beta Distributions,

3

Lord, Frederic M. ; CONTRACT: Nonr-2752(00) PROJ: NR-151-201

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, STATISTICAL DISTRIBUTIONS), INTEGRAL EQUATIONS, HYPERGEOMETRIC FUNCTIONS, POLYNOMIALS, STATISTICAL TESTS, CURVE FITTING

3 3 DENTIFIERS: BETA DENSITY FUNCTIONS, BINOMIAL DENSITY **FUNCTIONS**

 $\widehat{\Xi}$ specifies the relation of the examinee's observed score, x, to his true score, zeta. The present paper is concerned with a model for the number-right scores on a test composed of n questions or items. This model is completely specified by the assertion that the conditional frequency distribution of x when zeta is fixed is the binomial distribution (n over x)(zeta sup x)(1-zeta)sup(n-x). The basic problem in the use of this model may be thought estimating the unknown frequency the bivariate distribution of zeta and x has also test score can thus be investigated. Although it might at first seem otherwise, the model has distribution of true scores. Once this is done, been estimated. All important properties of the empirically verifiable implications. (Author) of as the problem of

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY AD- 740 525 5/10 TEXAS CHRISTIAN UNIV FORT WORTH INST FOR THE STUDY OF COGNITIVE SYSTEMS Schematic Concept Formation in Relationship to Mental Ability in Adolescents,

3

Shields, Ruth V. ; Gordon, Mary Alice :Evans, Selby H. ; CONTRACT: DAADOS-68-C-0176 PRDJ: DA-1-T-061102-B-81-A, THEMIS-367

Availability: Pub. in Psychonomic Science, v17 n6 p361-362 1969. UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, INTELLIGENCE TESTS), CORRELATION TECHNIQUES, ADOLESCENTS IDENTIFIERS: SCHEMA THEORY, THEMIS PROJECT

33

using stimuli generated by the VARGUS 9 computer system. Intelligence quotients of Ss ranged between 70 and 140, as measured by the California Test of Mental Maturity. Positive formation (SCF) and intelligence was studied with adolescent Ss. Sixty Ss (mean age 16 was found. Potential utility of the SCF task in studies of individual differences in learning are years) performed a two-schema discrimination task correlations were found between the SCF test and the CTMM total score (r=.36), CTMM language score (r=.42). No relationship between SCF and sex The relationship between schematic concept

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discussed. (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMD6

ND- 737 205 5/10 EDUCATIONAL TESTING SERVICE PRINCETON N J Development of Mental Test Theory and Methods.

DESCRIPTIVE NOTE: Final rept. Nov 68-Dct 71, JAN 72 6P Lord, Frederick M.; CONTRACT: N00014-69-C-0017 PROJ: NR-150-303

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, TEST
CONSTRUCTION(PSYCHOLOGY)), THEORY, DESIGN, STATISTICAL
ANALYSIS
(U)

Work carried out over a three-year period is summarized. Three of the publications issued carry on the development of new true-score theory and methods. Seven publications deal with the application of item characteristic curve theory to the problems of designing and evaluating various new and unconventional kinds of testing; two-stage testing, festing, computer-based testing, two-stage testing, flexilevel testing. Four others deal with various previously unsolved problems of statistical inference arising in classical mental test theory.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOG

AD- 728 844 5/9
CIVIL AEROMEDICAL INST OKLAHOMA CITY OKLA
A Non-Verbal Technique for the Assessment of

A Non-Verbal Technique for the Assessment of General Intellectual Ability in Selection of Aviation Personnel,

3

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OUN 71 11P Chiles, M. Dean; Smith Roger C.; MONITOR: FAA-AM 71-28

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, AVIATION PERSONNEL), (*AVIATION PERSONNEL, SELECTION), PROBLEM SOLVING, CORRELATION TECHNIQUES

A study was conducted in which performance on a non-verbal problem-solving task was correlated with the Otis Quick Scoring Mental Ability Fest and the Raven Progressive Matrices Test. The problem-solving task, called 'codelock' required the subject to determine the correct sequence in which to push five buttons in order to turn on a light. Measures of how quickly the subject responded and how many errors were made on each problem were taken from 45 college student volunteers. Results indicated substantial correlations (.50 to .60) between time measures on the code-lock task and the Otis but very limited relationships between the Raven and each code-lock measure. The implications of these findings for assessment of intellectual abilities are discussed.

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY AD- 726 531 5/9
AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL

Comparative Performance of Male and Female Enlistees on Air Force Selection Measures,

3

Vitola, Bert M. : Wilbourn, TR-71-9 771705, 771711 22P MONITOR: AFHRL PROJ: AF-7717 FEB 71 James M.

UNCLASSIFIED REPORT

ESCRIPTORS: (*AIR FORCE PERSONNEL, PERFORMANCE(HUMAN)), (*RECRUITING, PSYCHOLOGICAL TESTS), MILITARY REQUIREMENTS, MALES, FEMALES, INTELLIGENCE TESTS, APTITUDE TESTS, PERSONNEL MANAGEMENT (U) DESCRIPTORS:

3 Test (AFQT), the instrument currently used to establish the mental ability level of males entering test-retest performance was evaluated on the Armed Forces Women's Selection Test. WAF Male and female enlistee samples were compared for total groups and by enlistment region in terms of performance on the AFWST-was compared with their performance on the Armed Forces Qualification Examination and the Armed Services Vocational Aptitude Battery. Women in the Air Force their performance on the Airman Qualifying the military services. (Author)

UNCLASSIFIED

ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

YALE UNIV NEW HAVEN CONN DEPT OF ADMINISTRATIVE AD- 723 584 SCIENCES

The Impact of Classroom Assignments or Educational Outcome,

3

CONTRACT: AF-AFDSR-1600-68
PROJ: AF-9778
MONITOR: AF0SR

Availability: Pub. in The Experimental
Publication System, Issue 9 ms n313 p1-14 Dec 70.
SUPPLEMENTARY NOTE: Prepared in cooperation with Southern Connecticut State Coll., New Haven. UNCLASSIFIED REPORT

DESCRIPTORS: (*TEACHING METHODS, EFFECTIVENESS), INTELLIGENCE TESTS, PERFORMANCE(HUMAN)

3 intelligence plays a strong part in determining some evaluation, and problem solving -- each lead students to write essays with distinctive patterns of action frequently associated with high quality student performance--originality, quality of presentation, length, creativity, and grade assigned. (Author) classroom assignments do lead to written products assignments studied in this research -- production, with significantly different educational outcome -but not all -- characteristics of essays written response to class-room assignments. Intelligence presentation, issue involvement, creativity and The results demonstrate that different types of orientation, originality, optimism, quality of grade. The study's findings also indicate that characteristics. The three types of classroom Correlates highly with dimensions of essays

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

JOHNS HOPKINS UNIV BALTIMORE MD DEPT OF STATISTICS AD- 722 868

The Attenuation Paradox and Interna Consistency,

3

Gleser, Leon J. TR-71-1093 CONTRACT: F44620-70-C-0066 186 MONITOR: AFOSR PROJ: AF-9749 FEB 71

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the American Educational Research Association Annual Meeting (55th), New York City, 4-7 Feb 71.

3 DESCRIPTORS: (*INTELLIGENCE TESTS, STATISTICAL ANALYSIS), (*TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY), CORRELATION TECHNIQUES, THEORY, ERRORS, MATHEMATICAL MODELS, REGRESSION ANALYSIS, APTITUDE DESCRIPTORS:

The paper indicates why a concept of true score naturally leads to a belief that test validity must increase with an increase in test and/or average item reliability, and why for the classical single factor model first introduced by Spearman is correct. A statistical model used by Loevinger is introduced to establish the 'attenuation paradox' and to explain why this paradox holds in this particular model. It is hoped that mental test methods can include more critical appraisal of commonly used techniques and concepts, as well as a check of methods of test construction against the statistical models. (U)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

z EDUCATIONAL TESTING SERVICE PRINCETON

Tailored Testing, An Application of DESCRIPTIVE NOTE: Technical rept., Stochastic Approximation

3

Lord, Frederic M. N00014--69-C-0017 71 20P RM-71-2 PROJ: NR-150-303 CONTRACT:

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY), ACCURACY), (*INTELLIGENCE TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), STOCHASTIC PROCESSES, APPROXIMATION(MATHEMATICS), RELIABILITY, PROBABILITY IDENTIFIERS: STOCHASTIC APPROXIMATION

considered in connection with the following problem. How shall one choose a sequence of test questions in order to estimate as accurately as possible a given examinee's standing on some psychological dimension. Illustrations are given evaluating certain procedures in a specific context. Some stochastic approximation procedures are (Author)

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N

A Theoretical Study of the Measurement Effectiveness of Flexilevel Tests.

3

Lord, Frederic M. DESCRIPTIVE NOTE: Technical rept., REPT. NO. RB-71-6 CONTRACT: N00014-69-C-0017 PROJ: NR-150-303 17P RB-71-6

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*INTELLIGENCE TESTS, EFFECTIVENESS), PROBABILITY, TEST CONSTRUCTION(PSYCHOLOGY), THEORY

3 range of ability, a flexilevel test is much superior to any conventional test that attempts to provide A flexilevel test is found to be inferior to a peaked conventional test for measuring examinees in examinees at the extremes. Throughout the entire accurate measurement at both extremes. (Author) the middle of the ability range, superior for

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

1-717 629 5/10 PENNSYLVANIA STATE UNIV UNIVERSITY PARK AD- 717 629

A Culture-Fair Information Test of Intelligence.

3

Guthrie, George M. ; REPT. NO. TR-8 CONTRACT: Nonr-656(37), ARPA Order-855 DESCRIPTIVE NOTE: Technical rept., 13P

UNCLASSIFIED REPORT

Modernization on the Philippines. Prepared in cooperation with Ateneo de Manila University (Republic of the Philippines). See also Technical rept. no. 7, AD-708 689. SUPPLEMENTARY NOTE: Report on The Impact of

33 DESCRIPTORS: (*INTELLIGENCE TESTS, PHILIPPINES), (*TEST CONSTRUCTION(PSYCHOLOGY), EFFECTIVENESS), RURAL AREAS, ANALYSIS OF VARIANCE, ADAPTIVE SYSTEMS, RELIABILITY, CULTURE, PERFORMANCE(HUMAN), REVIEWS
IDENTIFIERS: PEASANTS

was developed using 25 general information questions. order to rank members of one or adjacent communities. This technique does not enable one to compare groups from markedly different cultural backgrounds An intelligence test for use with rural Filipinos analyses are described. It is suggested that this The questions bear on experiences common to most strategy could be used with other peasant groups where an assessment of intelligence is needed in runal Filipinos. The methods of development and (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

ILLINDIS UNIV CHAMPAIGN DEPT OF PSYCHOLOGY 5/10

PROJECT ON TECHNIQUES OF OBJECTIVE FACTOR ANALYSIS.

3

Humphreys, Lloyd G. ; Tucker DESCRIPTIVE NOTE: Technical rept., Ledyard R. ; Dachler, Peter ; 1118

REPT. NO. TR-1 CONTRACT: NOO014-67-A-0305-0012 PROJ: RR006-04, NR-150-305

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, REVIEWS), (*REASONING, ANALYSIS), FACTOR ANALYSIS, TEST CONSTRUCTION(PSYCHOLOGY), THEORY, CORRELATION TECHNIQUES, PERFORMANCE(HUMAN), INTERACTIONS IDENTIFIERS: INTELLIGENCE(HUMAN)

33

The document contains several separate manuscripts on the nature of intelligence. The plan is to integrate both test and factor theory with the empirical, functional relationships involving standard tests of intelligence.

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ZOMOS SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

STANFORD UNIV CALIF DEPT OF PSYCHOLOGY AD- 711 031

THE RELATION BETWEEN CONFORMITY AND PROBLEM SOLVING.

3

Nakamura, Charles Y. ; Technical rept., 39P DESCRIPTIVE NOTE: AUG 55

N6onr-25125 PROJ: NR-150-149 REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Also available as PB-123 125

33 DESCRIPTORS: (*BEHAVIOR, THEORY), (*PROBLEM SOLVING, CONFORMITY), CORRELATION TECHNIQUES, PERFORMANCE(HUMAN), MOTIVATION, ATTITUDES(PSYCHOLOGY), SEX, REACTION(PSYCHOLOGY), ANALYSIS OF VARIANCE, APPLIED IDENTIFIERS: SEX DIFFERENCES, THOUGHT DESCRIPTORS: PSYCHOLOGY

increasing interest in the relation between problem solving and various personality or non-intellectual differences are repeatedly found in problem solving differences in general intelligence as measured by the conventional tests. In the search for factors which contribute to this variability, a number of The study is concerned with the relation between tendency to conform and achievement in problem solving. The approach is in keeping with the variables. Impetus in this direction has been provided, in part, by the fact that individual experimenters have turned to the study of nontypes of tasks which are not accounted for by intellectual variables. (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J AD- 688 430

BINOMIAL ERROR MODELS IN MENTAL TESTING.

3

Lord, Frederic M. DESCRIPTIVE NOTE: Technical rept., RM-69-10 N00014-69-C-0017 26P NR-151-284 REPT. NO. CONTRACT: PROJ: NR-

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, MATHEMATICAL MODELS), STATISTICAL DISTRIBUTIONS, DECISION THEORY, INTEGRAL EQUATIONS, MEASUREMENT, ERRORS
IDENTIFIERS: BAYES THEOREM, STATISTICAL ANALYSIS, BINOMIAL DENSITY FUNCTIONS

measurements and 'true' measurements is outlined. This model is appropriate in many scientific areas. measurements for a population of measured objects. A special case important in mental test theory is considered. Practical results obtained by one A general model for the relation between fallible estimating the frequency distribution of true It leads to the empirical Bayes problem of estimation procedure are briefly outlined.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

- 661 276 5/10 5/9 WASHINGTON UNIV ST LOUIS MO DEPT OF PSYCHOLOGY AD- 661 276

A LEARNING TEST APPROACH TO PREDICTING CLASSROOM PERFORMANCE.

3

DESCRIPTIVE NOTE: Technical rept., CONTRACT: Nonr-816(14)

UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, PSYCHOLOGICAL TESTS),
PERFORMANCE(HUMAN), PROGRAMMED INSTRUCTION, INTELLIGENCE
TESTS, ACHIEVEMENT TESTS, APTITUDE TESTS, EDUCATION,
PREDICTIONS, VERBAL BEHAVIOR DESCRIPTORS:

3 possibility of using other complex learning tasks as ministure learning situations and with the relationships among the various gain measures of learning which would be developed. (Author) ability, the combination of the resulting gain measure of learning ability with a measure of verbal intelligence leads to an appreciably higher validity than can be obtained when either measure is used singly. Since programmed instruction provides an effective miniature learning situation, suggestions are made for further research dealing with the predict classroom performance. When a single program is used to obtain a measure of learning Miniature learning situations can be used to

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ZOMOS DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

FOR 430 5/10 EDUCATIONAL TESTING SERVICE PRINCETON N

3 BINOMIAL ERROR MODELS IN MENTAL TESTING

Lord, Frederic M. ; DESCRIPTIVE NOTE: Technical rept., MAY 69 26P Lord, Freder RM-69-10 REPT. NO.

N00014-69-C-0017 PROJ: NR-151-284 CONTRACT:

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, MATHEMATICAL MODELS), STATISTICAL DISTRIBUTIONS, DECISION THEORY, INTEGRAL EQUATIONS, MEASUREMENT, ERRORS
IDENTIFIERS: BAYES THEOREM, STATISTICAL ANALYSIS, BINOMIAL DENSITY FUNCTIONS

general model for the relation between fallible

measurements and 'true' measurements is outlined. This model is appropriate in many scientific areas. measurements for a population of measured objects. A special case important in mental test theory is considered. Practical results obtained by one It leads to the empirical Bayes problem of estimating the frequency distribution of true estimation procedure are briefly outlined. Author)

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIOGRAPHY

)- 661 276 5/10 5/9 WASHINGTON UNIV ST LOUIS MO DEPT OF PSYCHOLOGY AD- 661 276

A LEARNING TEST APPROACH TO PREDICTING CLASSROOM PERFORMANCE.

3

Wardrop, James L. ; DESCRIPTIVE NOTE: Technical rept., SEP 67 48P Wardrop, Jan

CONTRACT: Nonr-816(14) REPT. NO. TR-13

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*LEARNING, PSYCHOLOGICAL TESTS),
PERFORMANCE(HUMAN), PROGRAMMED INSTRUCTION, INTELLIGENCE
TESTS, ACHIEVEMENT TESTS, APTITUDE TESTS, EDUCATION,
PREDICTIONS, VERBAL BEHAVIOR

3 predict classroom performance. When a single program is used to obtain a measure of learning ability, the combination of the resulting gain measure of learning ability with a measure of verbal intelligence leads to an appreciably higher validity possibility of using other complex learning tasks as effective miniature learning situation, suggestions than can be obtained when either measure is used singly. Since programmed instruction provides an relationships among the various gain measures of are made for further research dealing with the Miniature learning situations can be used to miniature learning situations and with the learning which would be developed. (Author)

SEARCH CONTROL NO. ZOMOG DDC REPORT BIBLIOGRAPHY

PRINCETON UNIV N J DEPT OF PSYCHOLOGY 5/10 AD- 658 187

THE EFFECT OF CONCEPTUAL COMPLEXITY AND GROUP DISCUSSION ON RISK-TAKING AND JUDGMENTAL BEHAVIOR,

Lamm, Helmut ; 91P

CONTRACT: Non-1858(12) PROJ: NR-171-055

UNCLASSIFIED REPORT

DESCRIPTORS: (*PROBABILITY, *GROUP DYNAMICS), (*DECISION MAKING, *BEHAVIOR), PSYCHOLOGICAL TESTS, ACCURACY, PROBLEM SOLVING, REASONING, PERSONALITY, INTELLIGENCE TESTS, LEARNING, ANALYSIS OF VARIANCE, THESES (U)

3 instrument, where S's risk-taking propensity is inferred from the minimum odds of success he would demand before recommending the risky alternative in various hypothetical choice situations. A purpose of the present study was to test one prevalent explanation of the risky shift phenomenon, according to which it is a process of responsibility diffusion that enables the group members to become more acceptant of the risk of failure. This interpretation would not predict a shift toward risk investigate the role of information processing as a individuals take higher risks as a result of group discussion. The measure used in most of the relevant research has been a Choice Dilemmas discussion. An additional aim of this study was to on the part of an individual isolated from (and unnoticed by) the group but witnessing its Several recent studies have reported that source of differences in risk taking.

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N 12/1 AD- 657 875

MENTAL TEST THEORY. VOLUME VI. STRONG TRUE-SCORE

THEORY.

Lord, Frederic M. ; Novick CONTRACT: Nonr-4866(00), Nonr-2752(00) DESCRIPTIVE NOTE: 4TH ED. 126P JUN 67 Melvin R. ;

PROJ: NR-042-249, NR-151-201

Availability: Published in Copyrighted UNCLASSIFIED REPORT iournal.

SUPPLEMENTARY NOTE: See also Volume 5, AD-657 874.

3 ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), STATISTICAL PROCESSES, STOCHASTIC PROCESSES, PROBABILITY DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL

3 This report is an up-to-date, comprehensive, mathematical statistical presentation of mental test theory and its applications. Volume VI contains chapters 21 through 24, titled respectively Poisson process models; Messurements with independent errors of known distributional form; Binomial error models: True scores, factors and latent traits.

ZOMOS

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20MDS DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

EDUCATIONAL TESTING SERVICE PRINCETON N J 12/1 AD- 657 873

3 MENTAL TEST THEORY. VOLUME IV. VALIDITY AND TEST CONSTRUCTION THEORY. SECTION 2

Lord, Frederic M. ; Novick, CONTRACT: Nonr-4866(00), Nonr-2752(00) PROJ: NR-042-249, NR-151-201 DESCRIPTIVE NOTE: 4TH ED., Melvin R. :

journal. SUPPLEMENTARY NOTE: See also Volume 4, Section 1, Availability: Published in Copyrighted UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), SAMPLING, BEHAVIOR

mathematical statistical presentation of mental test theory and its applications. Section 2 of Volume IV contains Chapters 15 and 16, titled respectively: Item parameters and test construction; Latent traits and item characteristic This report is an up-to-date, comprehensive, functions.

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

- 657 872 5/10 12/1 EDUCATIONAL TESTING SERVICE PRINCETON N AD- 657 872

MENTAL TEST THEORY. VOLUME IV. VALIDITY AND TEST CONSTRUCTION THEORY. SECTION I.

3

Lord, Frederic M. : Novick DESCRIPTIVE NOTE: 4TH ED., MAY 67 122P Lo 122P Melvin R.;

CONTRACT: Nonr-4866(00) PROJ: NR-049-249

See also Volume 3, AD-657 871. Availability: Published in Copyrighted UNCLASSIFIED REPORT SUPPLEMENTARY NOTE: ourna 1.

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), PREDICTIONS, SAMPLING, DESCRIPTORS:

3

mathematical statistical presentation of mental test theory and its applications. Section 1 of Volume IV contains chapters 12 through 14, titled respectively: Validity; The selection of predictor variables; Measurement procedures and This report is an up-to-date, comprehensive, item-scoring formulas.

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

FOUCATIONAL TESTING SERVICE PRINCETON N

MENTAL TEST THEORY. VOLUME III. OTHER WEAK TRUE-SCORE MODELS.

3

Lord, Frederic M. : Novick 4TH ED MAY 67 160P DESCRIPTIVE NOTE: Melvin R. :

CONTRACT: Non-4866(00), Non-2752(00) PROJ: NR-042-249, NR-151-201

Availability: Published in Copyrighted journal. SUPPLEMENTARY NOTE: See also Volume 2, Section 2, AD-657 870. UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), RELIABILITY, DENTIFIERS: MAXIMUM LIKELIHOOD

33

This report is an up-to-date, comprehensive, mathematical statistical presentation of mental test theory and its applications. Volume III contains chapters 8 through 11, titled respectively: Some test theory for imperfectly parallel measurements; Types of reliability coefficients and their estimation: Some test theory for essentially tauquivalent measurements, including estimation of higher-order moments; and Item sampling in test theory and in research design.

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N 5/10 AD-

MENTAL TEST THEORY. VOLUME II. THE CLASSICAL TEST THEORY MODEL. SECTION 2.

9

Lord, Frederic M. : Novick DESCRIPTIVE NOTE: 4TH ED 79P JUN 67

CONTRACT: Nonr-4866(00), Nonr-2752(00) PROJ: NR-042-249, NR-151-201 Melvin R.;

UNCLASSIFIED REPORT
Availability: Published in Copyrighted journal.
SUPPLEMENTARY NOTE: See also Volume 2, Section 1, AD-657 869. DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), RELIABILITY DESCRIPTORS:

3

mathematical statistical presentation of mental test Factors affecting measurement precision, estimation and prediction; and Some estimates of parameters of theory and its applications. Volume II, section 2 contains chapters 6 and 7, titled respectively: This report is an up-to-date, comprehensive, the classical model.

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SEARCH CONTROL NO. ZOMO6 DOC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J

3 MENTAL TEST THEORY. VOLUME II. THE CLASSICAL TEST THEORY MODEL. SECTION 1.

DESCRIPTIVE NOTE: 4TH ED., Lord, Frederic M. ; Novick, Melvin R. :

CONTRACT: Nonr-4866(00), Nonr-2752(00) PROJ: NR-042-249, NR-151-201

Availability: Published in Copyrighted journal. SUPPLEMENTARY NOTE: See also Volume 1, AD-657 868 UNCLASSIFIED REPORT

3 ESCRIPTORS: (+PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN) DESCRIPTORS:

3 This report is an up-to-date, comprehensive, mathematical statistical presentation of mental test theory and its applications. Volume II, section I contains chapters 3, 4, and 5, titled respectively; Basic equations of the classical model for tests of fixed length; Composite tests; and Basic equations of the classical model for homogeneous tests of variable length.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20MO6

EDUCATIONAL TESTING SERVICE PRINCETON N J

MENTAL TEST THEORY. VOLUME I. THE FOUNDATIONS OF MENTAL MEASUREMENT THEORY.

3

Lord, Frederic M. : Novick, DESCRIPTIVE NOTE: 4TH ED., Melvin R. ;

CONTRACT: Nonr-4866(00) PROJ: NR-042-249

SUPPLEMENTARY NOTE: See also Volume 6, AD-657 875. Availability: Published in Copyrighted UNCLASSIFIED REPORT ournal.

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL ANALYSIS), INTELLIGENCE TESTS, MATHEMATICAL MODELS, PSYCHOLOGY, PERFORMANCE(HUMAN), EDUCATION

This report is an up-to-date, comprehensive, mathematical statistical presentation of mental test theory and its applications. Volume 1 contains the following two chapters: Measurement in psychology and education, and the construction of true and error scores.

3

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES

3 INTELLECTUAL ABILITIES OF SYMBOLIC AND SEMANTIC JUDGMENT,

Hoepfner, Ralph ; Nihira, Kazuo CONTRACT: Nonr-228(20) 510 Guilford, J. P. :

Availability: Available from American Psychological Association, Inc., 1200 Seventeenth St., N. W., Washington, D. C. 20036. \$2.00. SUPPLEMENTARY NOTE: Pub. in Psychological Monographs: General and Applied v80 n16 p1-47 UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, SEMANTICS), (*TEST CONSTRUCTION(PSYCHOLOGY), FACTOR ANALYSIS), (*SYMBOLS, PERCEPTION(PSYCHOLOGY)), INTELLIGENCE TESTS, APTITUDE TESTS, PROBLEM SOLVING, EXPERIMENTAL DESIGN

3 from one another and also from factors represented in other domains of the model. Experimental tests resulting in the demonstration of the 12 hypothesized evaluation factors and all the reference factors as uncorrelated dimensions of intellectual ability. evaluation were hypothesized to exist as distinct hypothesized factors. The tests were administered to 2 samples of high-school students, scores were The conclusion is that the model has continued to factors. Measures of reference factors were also employed to demonstrate the uniqueness of the wo studies approached the problem of describing ndividual differences in terms of basic traits. factor analyzed, and axes analytically rotated, lead fruitfully to undiscovered, differentiable were developed as measures of the hypothesized Based upon Guilford's structure-of-intellect model, the factors of symbolic and semantic udgmental processes from the standpoint of intellectual aptitudes. (Author)

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N 647 409

 $\widehat{\Xi}$ ESTIMATING TRUE-SCORE DISTRIBUTIONS FOR MENTAL TESTS (METHOD 16)

Lord, Frederic M. ; Lees, DESCRIPTIVE NOTE: Technical rept., 44P JAN 67

Nonr-2752(00) REPT. NO. RB-67-7 Diana M. CONTRACT:

PROJ: NR-151-201

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-647 406.

3 DESCRIPTORS: (*INTELLIGENCE TESTS, MATHEMATICAL MODELS), PSYCHOLOGICAL TESTS, STATISTICAL TESTS, CORRELATION TECHNIQUES, INTEGRAL EQUATIONS DESCRIPTORS:

population of examinees, but not uniquely. A suitable unique solution can be obtained by requiring that the true-score distribution be 'smooth' in some sense. The calculus of variations yields a formula for finding a unique 'smooth' true-score distribution from a population distribution of observed test scores. Attempts to substitute a sample distribution of observed test scores for the frequency distribution of observed test scores in the observed test scores to determine how well the model used to predict certain bivariate distributions of observed scores from the corresponding marginal distributions. The effectiveness of the model in making such predictions is reported for 26 different true-score distribution can be determined from the population distribution in the formula so obtained estimate the population true-score distribution is developed, leading to a different type of integral fits the data. An extension of the model has been distribution of true scores for a population of examinees as the unknown function in an integral equation. By solving this equation, the unknown using the sample observed-score distribution to equation. Practical procedures for solving this been tried out on 60 empirical distributions of integral equation are presented. The method has yield absurd results. An alternative method of unrestrictive one, representing the frequency The basic mathematical model used is a quite sets of data.

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SEARCH CONTROL NO. ZOMOG DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOG

AD- 646 377 AKRON UNIV OHIO

GENERALIZABILITY OF GAME PLAYING SKILL.

ESTIMATING TRUE-SCORE DISTRIBUTIONS FOR MENTAL TESTS

EDUCATIONAL TESTING SERVICE PRINCETON N J

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY

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DESCRIPTIVE NOTE: Technical rept.,

Shriver, June DeLuca CONTRACT: Nonr-4302(00) 66 118P

Lord, Frederic M. : Lees,

DESCRIPTIVE NOTE: Technical rept.,

60P

Diana M. ; CONTRACT: PROJ:

(METHODS 12, 14, 15).

RM-67-1 Nonr-2752(00)

NR-151-201

PROJ: NR-177-356

UNCLASSIFIED REPORT

DESCRIPTORS: (*DECISION MAKING, PERFORMANCE(HUMAN)), (*GAME THEORY, DECISION MAKING), PROBLEM SOLVING, PSYCHOLOGICAL TESTS, INTELLIGENCE TESTS, PERSONALITY TESTS, GROUP DYNAMICS, SOCIAL PSYCHOLOGY, LEARNING, CHILDREN

ESCRIPTORS: (*INTELLIGENCE TESTS, MATHEMATICAL MODELS), PSYCHOLOGICAL TESTS, STATISTICAL TESTS, CORRELATION TECHNIQUES, INTEGRAL EQUATIONS (U)

See also AD-647 409.

SUPPLEMENTARY NOTE:

DESCRIPTORS:

UNCLASSIFIED REPORT

3

and 12 non-science majors) participated in a round robin tournament of two games of strategy. Each was presented with a puzzle to solve. Their number of wins in each of the two games of strategy and their weighted puzzle scores were correlated with biographic, intellective, self-reported preference and experience scores, and personality factors as (Pipeline), (2) strategic skill is different from puzzle-solving skill, (3) preference for and personality factors, as measured by the Guilford-Zimmerman Temperament Survey, are related to The study attempted to discover whether (1) skill in one strategic game (The Game of 99) is generalizable to another strategic game, University of Akron students (12 science majors measured by the Guilford-Zimmerman Temperament skill in games of strategy. Twenty-four male Survey. The results seem to justify the experience in strategic games, and (4)

model, without encouraging outcome, are summarized in

appendices. (Author)

results of practical value for perhaps half of the scale testing programs. The first model produced sets of data. Two generalizations of the first

As part of a continuing program for estimating the relation of true score to observed score, three new models were tried out, using data from many large-

definitions of strategic games was not demonstrated skill between two games which meet the operational following conclusions: (1) generalization of

games, activities or situations and strategic skills by this study, (2) there is no relationship between preference for and experience in strategic skill in the Game of 99 or Pipeline and personality factors as measured by the Guilfordas measured by the Game of 99 and Pipeline, and (3) no relationship was demonstrated between Zimmerman Temperament Survey. (Author)

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ZOMOS DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AD- 622 050

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

3 THE RELATION OF PERFORMANCE IN AVIATION TRAINING TO OFFICER QUALITY IN THE FLEET.

Shoenberger, R. W. : DESCRIPTIVE NOTE: Special rept.,

NSAM-SR-61-5 REPT. NO. UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NAVAL TRAINING, AVIATION PERSONNEL),
PERFORMANCE(HUMAN), INTELLIGENCE TESTS, OFFICER
PERSONNEL, PERSONNEL SELECTION, APTITUDE TESTS,
INTELLIGENCE TESTS, FLIGHT, TRAINING
IDENTIFIERS: PERSONNEL SELECTION

33

unsatisfactory, satisfactory, or outstanding first tour fleet officers. This report compares these three groups in terms of selection test scores and training grades. Based upon performances on intelligence measures and in academic subjects, it appears that an officer's general intelligence level plays a large part in judgments by others of his officer proficiency during his first tour in the somewhat to his rating as an officer; however, the data suggest that this contribution is considerably fleet. Flight grades made during training indicate means of interviews with squadron commanding officers, fiscal 1958 graduates of the flight training program were identified as being that a man's flight abilities also contribute greater in VF-VA squadrons than in VS or VP squadrons. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 609 845

AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD

3 A PROGRAM FOR THE SOLUTION OF A CLASS OF GEOMETRIC-ANALOGY INTELLIGENCE-TEST QUESTIONS.

DESCRIPTIVE NOTE: Physical and mathematical sciences

Evans, Thomas G. ; 101P research papers, 64

64-884, PMSRP64 MONITOR: AFCRL , AFCRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

RECOGNITION), (*INTELLIGENCE TESTS, PATTERN
RECOGNITION), PROGRAMMING (COMPUTERS), PROGRAMMING
LANGUAGES, TRANSFORMATIONS (MATHEMATICS), TOPOLOGY,
INPUT OUTPUT DEVICES, DECISION MAKING, PERFORMANCE (* ARTIFICIAL INTELLIGENCE, PATTERN (HUMAN), COMPUTERS, ANALYSIS, GEOMETRIC FORMS DESCRIPTORS:

3

A program was constructed for solving a wide

variety of intelligence-test problems of the 'geometric-analogy' type: 'Figure A is to Figure B as Figure C is to which of the following figures.' The program, which is written in the LISP language, uses heuristic methods to calculate, from relatively primitive representations of the input figures, descriptions of these figures in terms of subfigures and relations among them.

solved a large number of such problems, including It then utilizes these descriptions to find an appropriate rule and to apply it, modified as necessary, to arrive at an answer. The program

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many taken directly from college-level intelligence terms of figure descriptions, which are analyzed to find transformation rules, and rule descriptions, which are analyzed to find 'common generalizations' tests. The novel organization of the program in

at some length and suggestions are made for work on pattern-recognition and learning techniques based on ideas developed in the course of the present for the design of problem-solving programs and for machine learning. These implications are discussed of pairs of transformation rules, has implications

investigation. (Author)

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24

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SOMOS

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SEARCH CONTROL NO. LOMOS DOC REPORT BIBLIDGRAPHY

PITTSBURGH UNIV AD- 609 802

LEARNING SET FORMATION IN PROGRAMMED

INSTRUCTION

DESCRIPTIVE NOTE: Final rept. for Oct 61-Oct 62, NOV 64 21P Reynolds, James H. : Glaser, 64 21P

Robert ; Abma, John S. ; CONTRACT: AF33 616 7175 , DE2 10 057

1710

TASK: 171007 PROJ:

MONITOR: AMRL .

TR64 114

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-609 801.

3 FESCRIPTORS: (*TRAINING DEVICES, TEACHING MACHINES), (*TEACHING MACHINES, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, TEACHING MACHINES), TRAINING, LEARNING, PSYCHOLOGY, VERBAL BEHAVIOUR, PERFORMANCE (HUMAN), TESTS, EDUCATION DESCRIPTORS:

set formation is observable in programed instruction for all learners regardless of individual indication of learning set formation, the phenomenon can be measured only in programs involving a average intelligence and average achievement groups. instruction were administered to groups of students matched on (a) intelligence or (b) relevant achievement tests. Comparisons were made between groups that were (a) high or (b) average on each matching variable. The hypotheses being set formation would not be demonstrated by the high learning set formation would be demonstrated by the differed for some of the experimental groups while intelligence and high achievement groups, and (b) moderately high error rate. (c) Since error rate Iwo different orders of three units of programed tested were that after varied amounts of prior practice in programed instruction, (a) learning differences. Since, reduced error rate was the observing learning set formation. (b) Learning hypothesis. The data indicated the following: more appropriate measure than achievement for (a) In a programed sequence, error rate is a Only partial support was obtained for each achievement remained the same,

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY

UTAH UNIV SALT LAKE CITY

INFORMATION AND SCIENTIFIC CREATIVITY,

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Taylor, Calvin W. CONTRACT: AF AFOSR144 63

64 2502 MONITOR: AFOSR ,

Availability: Microfiche copies only. SUPPLEMENTARY NOTE: Paper presented at the Second Symposium of the Federal Council for Science and Technology, 13 Apr 64, on the topic, 'Technical Information and the Federal Laboratory. UNCLASSIFIED REPORT

(*INFORMATION RETRIEVAL, SCIENTISTS), HUMAN FACTORS ENGINEERING, SUPERVISORS, SYMPOSIA, INTELLIGENCE TESTS, LEARNING, MEMORY(PSYCHOLOGY), REASONING, INDUSTRIAL (*SCIENTISTS, PERFORMANCE (HUMAN)), DESCRIPTORS: PSYCHOLOGY

IDENTIFIERS: CREATIVE THINKING

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climate in which he works, and the nature of the information received by him are all examined in their receives and handles information, the intellectual constitutes effectiveness and creativity in a scientist is discussed. The way the scientist In this paper the problem of studying what bearing on the creative process.

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

UTAH UNIV SALT LAKE CITY

IDENTIFYING RESEARCH CHARACTERISTICS IN HIGH SCHOOL STUDENTS, A SECOND STUDY.

Elwin ;Cooley,Gary M. ;Ellison,Robert ; CONTRACT: AF AFOSR11 63 MONITOR: AFOSR , 64 2261

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original document contains color other than black and white and is available in limited supply.

After present stock is exhausted, it will be available in black-and-white only.

(*STUDENTS, PSYCHOLOGICAL TESTS), (*INTELLIGENCE TESTS, SCIENTISTS), AIR FORCE, RECRUITING, TRAINING, RESEARCH MANAGEMENT, PERFORMANCE (HUMAN), AIR FORCE PERSONNEL, EDUCATION, (*MILITARY PERSONNEL, SELECTION), DESCRIPTORS:

DENTIFIERS: PERSONNEL SCREENING TESTS TABLES(DATA)

33

An attempt was made to discover the best predictor of creative scientific talent in high school students. A new study was undertaken with a threefold purpose: (1) to focus on improving the spread of criterion rating scores over those obtained in our first study of the research participation programs; (2) to obtain cross validities on the best predictors used in the previous summer's study;

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SEARCH CONTROL NO. ZOMO6 ODC REPORT BIBLIOGRAPHY

898 909

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PREDICTING FIRST YEAR ACHIEVEMENT OF AIR FORCE ACADEMY CADETS, CLASS OF 1964

3

DESCRIPTIVE NOTE: Yearly validity rept. no. 6, Miller, Robert E. ; 12P 64

PROJ: 7717 TASK: 771706

MONITOR: PRL

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 FESCRIPTORS: (*AIR FORCE PERSONNEL, PSYCHOLOGICAL
TESTS), (*OFFICE PERSONNEL, SELECTION), APTITUDE TESTS,
INTELLIGENCE TESTS, MOTIVATION, LEADERSHIP, PERSONALITY,
PERFORMANCE(HUMAN), PHYSICAL FITNESS, TEST METHODS,
CORRELATION TECHNIQUES DESCRIPTORS:

Applicants for each Air Force Academy class

take a battery of selection tests to establish their qualifications. Entering cadets take an additional battery consisting mainly of nonacademic experimental tests, developed as part of a program for the production of officer selection and classification devices. Both batteries are validated at the end of the fourth-class year against academic and nonacademic criteria were the Academic Standard Score, Cadet Effectiveness Rating (CER), Residualized Cadet Effectiveness Rating

Motivational Elimination. Using multiple regression techniques, it was found that there are measures in both the selection and experimental Extracurricular Activities Standard Score, Nonacademic Standard Score, and Early (with respect to physical aptitude),

Ξ

and (3) to provide ourselves an opportunity to

try out a few new predictor instruments.

batteries having validity for each of the criteria. with the CER. Validities are not significantly different from those observed in the class of 1963 Multiple correlations up to .63 were obtained with the Academic score as the criterion, and up to .51 Previously observed fluctuating validities appear for selection tests common to both classes.

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to have stabilized. (Author)

SEARCH CONTROL NO. ZOMOG HER REPORT BIRLINGRAPHY

validation of Experimental Electronics Selection Battery.

BERSONNEL RESEARCH OFFICE WASHINGTON D C

965 282

Andrews, Robert S. ; Ringel, DESCRIPTIVE NOTE: Technical research rept., 20

DA-2-J-024701-A-723 APRO-TRR-1138

UNCLASSIFIED REPORT

Report on Command Systems C-00 SUPPLEMENTARY NOTE: Project.

CONSTRUCTION (PSYCHOLOGY), REASONING, READING, PERSONALITY, PSYCHOLOGICAL TESTS, INTELLIGENCE TESTS, MILITARY REQUIREMENTS, MILITARY TRAINING, CORRELATION ESCRIPTORS: (*ELECTRONIC TECHNICIANS, SELECTION), (*APTITUDE TESTS, ARMY PERSONNEL), (*ARMY PERSONNEL, ELECTRONIC TECHNICIANS), PERSONNEL MANAGEMENT, TEST DENTIFIERS: PERSONNEL SCREENING TESTS TECHNIQUES, PERFORMANCE (HUMAN)

complete electronics training courses and satisfactorily perform in highly critical electronics positions. The present publication summarizes for means of selecting personnel who can successfully personality background--were evaluated in conjunction with the operational Army Classification five reasoning ability, six noncognitive ability, one research accomplished in several integrated studies which culminated in development of an experimental Accelerated use of electronic systems and equipment generated an increasing requirement component experimental measures -- three information, differentiating between potential for electronics complexity) MOS. Three measures, two which were derived from a single instrument -- the Personal electronics selection battery of 15 tests. The (high complexity) MOS and electrical (low Battery (ACB) for effectiveness in in the Army has

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 605 281

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C Research to Improve Enlisted Classification

Techni ques,

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Helme, William H. REPT. NO. APRO-TRR-1137 PROJ: DA-2-J-024701-A-722 2 JUN 64

UNCLASSIFIED REPORT

Report on New Classification SUPPLEMENTARY NOTE: Techniques.

3 DESCRIPTORS: (*ARMY PERSONNEL, SELECTION), (*APTITUDE TESTS, ARMY PERSONNEL), TEST CONSTRUCTION (PSYCHOLOGY), ANTHROPOMETRY, PSYCHOLOGICAL TESTS, PHYSICAL FITNESS, PERSONNEL MANAGEMENT, ELECTRONIC TECHNICIANS, MAINTENNCE PERSONNEL, PERSONALITY, INTELLIGENCE TESTS, PERFORMANCE (HUMAN), CORRELATION TECHNIQUES, MILITARY TRAINING TECHNIQUES, MILITARY TRAINING

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3 of combinations of tests which are the most effective differential predictors of success in occupational areas and subareas. Additional Task objectives encompass (1) identifying potential career enlisted men; (2) screening and assignment of enlisted men of relatively low ability, (3) maintenance and continued development of the aptitude developing physical proficiency measures to classify enlisted men is reviewed. Research effort of the NEW CLASSIFICATION TECHNIQUES Task has been devoted substantially to improved measures for the Army Classification Battery (ACB) and identification developed and ready for comprehensive evaluation as EM for combat and combat-support MOS with unusual Clerical job areas; three information tests for Research responsive to the Army requirement for area system of differential classification of Construction and Mechanical-Electrical jobs; General Maintenance, Motor Maintenance, and physical demands. New Classification tests aptitude and ability tests for Electronics, and personality-interest measures. (Author) potential components of the ACB include:

included in comprehensive studies of experimental and operational predictors as part of the total (L

radio, mathematics, and electronics information items

promising predictors of success in Electronics

MOS. The third measure, RME, was composed of

Inventory for Electronics-emerged as the most

from several of the tests. These measures will be

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SEARCH CONTROL NO. ZOMO6 DOC REPORT BIBLIDGRAPHY

HARPUR COLL ENDICOTT N

TEAMMORK UNDER TURNOVER AND SUCCESSION

 $\widehat{\Xi}$

DESCRIPTIVE NOTE: Technical rept. no. 2
JUN 64 20P Trow, Donald B.;
CONTRACT: Nonr3679 00
PROJ: NR170 331

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

 $\widehat{\Xi}$ (*GROUP DYNAMICS, PERFORMANCE (HUMAN)), (*JOB ANALYSIS, GROUP DYNAMICS), ADJUSTMENT (PSYCHOLOGY), LEADERSHIP, SOCIOMETRICS, SOCIAL PSYCHOLOGY, INTELLIGENCE TESTS, INTERCOMMUNICATION SYSTEMS, TYPEWRITERS DESCRIPTORS:

(a) if the number of members replaced was large relative to the past history of the team; (b) if succession in the control position was involved; and Iwenty-eight groups were observed performing a task that requires teamwork but allows flexibility of organization. The teams were made to experience (c) if the successor's intelligence was lower than his predecessor's. Performance did not suffer occurred as turnover in subordinate positions; further, (c) performance was unrelated to intelligence except following replacement. The findings are not task-specific, as they in general replicate those of previous studies employing if (a) the number of members replaced was large absolutely but not relatively or (b) replacement varied amounts of membership replacement. Team performance was found to suffer significantly: different tasks. (Author)

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SEARCH CONTROL NO. ZOMO6 DDC REPORT BIBLIDGRAPHY 5/10

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES PSYCHOLOGICAL LAB

3 STRUCTURE-OF-INTELLECT FACTORS AND THEIR TESTS, 1966. STUDIES OF APTITUDES OF HIGH-LEVEL PERSONNEL.

Technical rept., P Guilford, J. Paul ; Hoepfner, 16P DESCRIPTIVE NOTE: CONTRACT: Nonr-22 PROJ: NR-150-044 99 Ralph ;

Nonr-228(20

UNCLASSIFIED REPORT

DESCRIPTORS: (*INTELLIGENCE TESTS, *FACTOR ANALYSIS), MEMORY(PSYCHOLOGY), MATHEMATICAL MODELS, RETENTION(PSYCHOLOGY), REASONING, DECISION MAKING, APTITUDE TESTS, VERBAL BEHAVIOR, SEMANICS

3

The theory and definitions basic to the structure-of-intellect model are outlined and all the known factors and their tests are briefly described. (Author)

3

PAGE

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MULTIPLE-CHOICE INTELLIGIBILITY TEST,

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MESCRIPTORS: (*PERFORMANCE(HUMAN), INTELLIGIBILITY), (*SPEECH RECOGNITION, PERFORMANCE(HUMAN)), TEST CONSTRUCTION(PSYCHOLOGY), DESIGN, INSTRUCTION MANUALS(U) DESCRIPTORS:

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REPT. NO. 33 CONTRACT: Non-22820 PROJ: NR150 044

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SUPPLEMENTARY NOTE:

DESCRIPTORS: (*APTITUDE TESTS, FACTOR ANALYSIS), INTELLIGENCE TESTS, TEST CONSTRUCTION (PSYCHOLOGY), TESTS, EFFECTIVENESS, THEORY, STATISTICAL ANALYSIS

3

3 This study approaches the problem of describing symbolic judgmental processes from the standpoint of individual differences in terms of basic traits. Based upon Guilford's structure-ofintellect model, six factors of symbolic evaluation were hypothesized to exist as distinct from each other and also from factors represented in certain other domains of the model. Twentyfive experimental tests were developed to serve as measures of the six isolating a motivation factor and possibly determining the influence of motivation upon the test symbol but utilized several kinds, including numbers hypothesized factors. In order to obtain factors clearly generalizable to those generated from the model, at least three tests were developed for each the uniqueness of the hypothesized factors. Twentyfive tests designed to measure 12 reference factors were also included in order to demonstrate clearly addition, three variables designed to measure the examinees' levels of motivation to succeed on the aptitude tests were employed in expectation of reference factors from the structure of intellect designed were not specific to a certain kind of were analyzed as part of the total battery. In hypothesized factor. Furthermore, the tests words, letters, and syllables. Measures of scores. (Author)

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PAGE

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CONTRACT: Nonr22820 PROJ: NR150044

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(*REASONING, FACTOR ANALYSIS), PSYCHOLOGICAL TESTS), MATHEMATICAL LOGIC, WORD ASSOCIATION, INTELLIGENCE TESTS, VERBAL BEHAVIOR, TEST METHODS, STATISTICAL ANALYSIS, PERFORMANCE (HUMAN)

33

demonstrate the unique existence of the hypothesized factors as distinct from six known factors of cognition and two known factors in the convergent and were developed or revised for this study. Twenty marker tests were included in the battery in order to abilities; distinguishable from one another and also from abilities in other operation categories, particularly cognitive abilities. Twenty-two tests This study attempts to identify basic traits with respect to which individuals differ from one another in evaluative performances. Six hypothesized divergent areas of the structure-of-intellect model. factors of evaluation were deduced from a theory of model). These six factors pertain to the evaluation of verbal information. One of the major intellectual abilities (the structureof-intellect objectives was to determine whether it could be demonstrated that there are such distinguishable

UNCLASSIFIED

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DESCRIPTORS: (*PSYCHOMETRIC TESTS, PSYCHOL), BEHAVIOR, INTELLIGENCE TESTS, CORRE, PERSONALITY, EDUCATION.

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UNCLASSIFIED

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30

PAGE

UNCLASSIFIED

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Technical research note, P Bayroff, A.G.; Anderson, Alan 116 DESCRIPTIVE NOTE: UAN 63

REPT. NO. APRO-TRN-131 PROJ: DA-0-J-9560001

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DESCRIPTORS: (*INTELLIGENCE TESTS, MEASURE),
(*INTELLIGENCE TESTS, INSTRUMENTATION), (*TEST
CONSTRUCTION (PSYCHOLOGY), INTELLIGENCE), SELECTION,
ARMED FORCES United states), training, psychometrics
IDENTIFIERS: ARMED FORCES QUALIFICATION TEST

acceptance during mobilization, these scales would be available for categorizing those men who were sufficiently literate in E to go into basic training or who could become marginally literate with describes the research by which literacy screening scales were developed for use with AFQT 7 and 8. selected and cutting scores set so as to classify marginally literate the same proportion of input groups as did the prior VA keys for AFQT 5 and 6. Qualification Test to identify various degrees of literacy. In the event of lowered standards of Keys based on the easiest 24 items (half verbal and half arithmetic reasoning) of AFQT were Literacy screening devices (VA keys) have been used with operational forms of the Armed Forces special literacy training. The present study

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UNCLASSIFIED

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33 DESCRIPTORS: *APTITUDE TESTS, *EDUCATION, ACHIEVEMENT TESTS, ANALYSIS, INTELLIGENCE TESTS, STUDENTS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT

SELF-RATINGS OF APTITUDES BY HIGH SCHOOL STUDENTS FOUND RELATED TO VOCATIONAL DEVELOPMENTAL PROGRAMS BUT A HIGHER CORRELATION BETWEEN APTITUDE TEST AND ACHIEVEMENT.

32

PAGE

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ZOMOS DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

NEW YORK UNIV N Y RESEARCH CENTER FOR HUMAN RELATIONS

Ξ EFFECT OF VARIATIONS IN ANXIETY, PERSONAL THREAT AND RACIAL ENVIRONMENT ON TASK PERFORMANCE OF NEGRO COLLEGE STUDENTS

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3 DESCRIPTORS: *BEHAVIOR, *CONDITIONED RESPONSE, *INTELLIGENCE TESTS, *LANGUAGE, MEASUREMENT

3 intelligence groups, although the results were in the expected direction of stronger conditioning for high intelligence test Ss. (Author) round meaning was not significantly different for the low intelligence test group, as measured by semantic differential scores. The conditioning of sharpthe higher-order conditioning of responses relevant to more complex human behaviors was investigated. The ease with which subjects (Ss) acquired conditioned meaning responses to neutral verbal stimuli (Saats + Stats, 1957) was related to Examination Board Scholastic Aptitude Test). Sixty-four who sored abo, e the upper or high intelligence test group acquired significantly stronger evaluative meaning responses than did the A relationship between intelligence test scores and below the lower 10 percentile level of their class were individually run in this higher-order Inguage condtioning procedure. Results indicted that the

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DESCRIPTORS: ACHIEVEMENT TESTS, APTITUDE TESTS, FACTOR ANALYSIS, INTELLIGENCE TESTS (L

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3 DESCRIPTORS: (*MILITARY PERSONNEL, *INTELLIGENCE TESTS), (*PERFORMANCE(HUMAN), NUMERICAL ANALYSIS), ERRORS, 11

3 in the operational scores for enlistees and inductees as indicated by the pile-up of scores at the cutpoint; (2) under standard administration, the pile-up at the cut-point was absent, and the original earlier tests is discussed to permit a better understanding of the development of the AFQT. A comparison of the AFQT scores obtained under operational conditions and under standard conditions The problems encountered in the development of the AFQT are summarized, and the outcome of attempts to solve the problems is described. Experience with standardization percentiles were obtained; and (3) the correction of operating conditions of test administration was considered the solution for avoiding the discrepancies which appear in indicated the following: (1) slippage occurred

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9

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THE CLASSICAL TEST THEORY MODEL.
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DISTRIBUTIONS FOR MENTAL TESTS
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Years Later,
AD-A005 242

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184
EFFECT OF VARIATIONS IN
ANXIETY, PERSONAL THREAT AND RACIAL
ENVIRONMENT ON TASK PERFORMANCE OF
NEGRO COLLEGE STUDENTS
AD- 281 547

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PREDICTING FIRST YEAR
ACHIEVEMENT OF AIR FORCE ACADEMY
CADETS, CLASS OF 1964.
AD- 606 868

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COMPLEXITY AND GROUP DISCUSSION ON
RISK-TAKING AND JUDGMENTAL
BEHAVIOR,

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AD- 658 187

SAM-TR-76-245
Intelligence Test Performance
of Vietnam Prisoners of War Two
Years Post-Return,
AD-A034 554

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TR-11
THE RELATION BETWEEN CONFORMITY
AND PROBLEM SOLVING.
AD- 711 031

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Theory and Method for Research
on Aptitude Processes: A
Prospectus.
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33
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AD- 464 259

36 * * * *
STRUCTURE-OF-INTELLECT FACTORS
AND THEIR TESTS, 1966. STUDIES OF
APTITUDES OF HIGH-LEVEL PERSONNEL.
AD- 489 528

ADT 489 528

*UTAH UNIV SALT LAKE CITY

IDENTIFYING RESEARCH
CHARACTERISTICS IN HIGH SCHOOL
STUDENTS, A SECOND STUDY,
(AFDSR-64 2261)
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INFORMATION AND SCIENTIFIC CREATIVITY, (AFOSR-64 2502) AP- 609 486 *WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY

TR-73-40
Participative Management,
Member Intelligence, and Group
Performance.
AD- 756 657

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THE RELATION BETWEEN TWO
MEASURES OF LEARNING: RESIDUAL GAIN
AND COMMON POINTS OF MASTERY.
AD- 805 294 * * *

TR-12
THE RELATION OF INTELLIGENCE TC
THE ABILITY TO LEARN.
AD- 805 311
* * * *

TR-13
A LEARNING TEST APPROACH TO
PREDICTING CLASSROOM PERFORMANCE.
AD- 661 276

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20MOS

SUBJECT INDEX

PERFORMANCE (HUMAN)
Comparative Performance of Male
and Female Enlistees on Air Force
Selection Measures,*
Ab- 726 531

*AIR FORCE PERSONNEL

PSYCHOLOGICAL TESTS
Predicting first year
achievement of air force academy
cadets, class of 1964.
AD- 606 868

*ANTHROPOLOGY

EFFECT OF VARIATIONS IN ANXIETY,

PERSONAL THREAT AND RACIAL

ENVIRONMENT ON TASK PERFORMANCE OF

NEGRO COLLEGE STUDENTS*

AD- 281 547

*APTITUDE TESTS
SELF-RATINGS OF APTITUDES BY
HIGH SCHOOL STUDENTS FOUND
RELATED TO VOCATIONAL
DEVELOPMENTAL PROGRAMS BUT A HIGHER
CORRELATION BETWEEN APTITUDE
TEST AND ACHIEVEMENT.

ARMY PERSONNEL
Research to improve enlisted
classified techniques.
AD- 605 281
Validation of experimental
electronics selection battery.

AD- 605 282

4D- 282 421

FACTOR ANALYSIS

A factor analysis of the symbolicevaluation abilities.
Studies of aptitudes of high-level personnel.

AD- 464 259

AD- 728 844

SCIENTISTS
Identifying research
characteristics in high school
students; search methods for
scientific talent for military
personnel recruitment.

*APTITUDES
Theory and Method for Research
on Aptitude Processes: A
Prospectus.*

AD-A039 810

*ARMY PERSONNEL

ELECTRONIC TECHNICIANS

Validation of experimental

electronics selection battery

AD- 605 282

SELECTION
Research to improve enlisted classified techniques.
AD- 605 281

*ARTIFICIAL INTELLIGENCE
PATTERN RECOGNITION
Program for the solution of a class of geometric-analogy intelligence-test question; machine analysis and solution to problems.

AD- 609 845

*ATTRITION
MILITARY PERSONNEL
Comparison of Navy and Air Force
Administrative and Disciplinary
Discharges,*

*AVIATION PERSONNEL
SELECTION
A Non-Verbal Technique for the
Asses ment of General Intellectual
Ability in Selection of Aviation
Personnel,*

*AWARENESS
Identification and Measurement
of Intellective Load Carrying
Thresholds.*
AD-A009 159

*BEHAVIOR THE RELATIONSHIP OF INTELLIGENCE TEST SCORES TO THE EASE OF LANGUAGE

AD- 267 566

DECISION MAKING
THE EFFECT OF CONCEPTUAL
COMPLEXITY AND GROUP DISCUSSION ON
RISK-TAKING AND JUDGMENTAL
BEHAVIOR,*

AD- 658 187

THEORY
THE RELATION BETWEEN CONFORMITY
AND PROBLEM SOLVING.*

*CONDITIONED RESPONSE
THE RELATIONSHIP OF INTELLIGENCE
TEST SCORES TO THE EASE OF LANGUAGE
CONDITIONING*
AD- 267 566

APTITUDE TESTS
Factor analysis of evaluation
and judgment abilities of
individuals.
AD- 457 523

*DECISION MAKING

BEHAVIOR
THE EFFECT OF CONCEPTUAL
COMPLEXITY AND GROUP DISCUSSION ON
RISK-TAKING AND JUDGMENTAL
BEHAVIOR,*

PERFORMANCE(HUMAN)
GENERALIZABILITY OF GAME PLAYING
SKILL.*
AD- 646 377

*EDUCATION
SELF-RATINGS OF APTITUDES BY
HIGH SCHOOL STUDENTS FOUND
RELATED TO VOCATIONAL
DEVELOPMENTAL PROGRAMS BUT A HIGHER
CORRELATION BETWEEN APTITUDE
TEST AND ACHIEVEMENT.

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UNCLASSIFIED

ZOMOS

Validation of experimental electronics selection battery. AD- 605 282

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INTELLIGENCE TESTS
STRUCTURE—OF—INTELLECT FACTORS
AND THEIR TESTS, 1966. STUDIES OF
APTITUDES OF HIGH-LEVEL PERSONNEL.*
AD— 489 528

*GAME THEORY
DECISION MAKING
GENERALIZABILITY OF GAME PLAYING
SKILL.*
AD- 646 377

SKILL.*
AD- 646 377
*GROUP DYNAMICS
INTELLIGENCE TESTS
Intelligence, and Group
Performance.*

AD- 756 657

PERFORMANCE (HUMAN)

Effect of membership replacement upon team performance.

AD- 601 816

PROBABILITY
THE EFFECT OF CONCEPTUAL
COMPLEXITY AND GROUP DISCUSSION ON
RISK-TAKING AND JUDGMENTAL
BEHAVIOR,*
AD- 658 187

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Years Later.
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Bound Effect.*

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THE RELATIONSHIP OF INTELLIGENCE
TEST SCORES TO THE EASE OF LANGUAGE
CONDITIONING*
AD- 267 566

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AVIATION PERSONNEL
A Non-Verbal Technique for the
Assessment of General Intellectual
Ability in Selection of Aviation
Personnel,*

Assessment of General Intelle
Ability in Selection of Aviat
Personnel,*
AD- 728 844

EFFECTIVENESS
A Theoretical Study of the
Measurement Effectiveness of
Flexilevel Tests.*

FACTOR ANALYSIS STRUCTURE-OF-INTELLECT FACTORS AND THEIR TESTS, 1966. STUDIES OF APTITUDES OF HIGH-LEVEL PERSONNEL.* AD- 489 528

AD- 720 734

INSTRUMENTATION
Development of literacy
screening scales for AFQT 7 and
failures.
AD- 411 227

8

MATHEMATICAL MODELS
ESTIMATING TRUE-SCORE
DISTRIBUTIONS FOR MENTAL TESTS
(METHODS 12, 14, 15).*
AD-647 406
ESTIMATING TRUE-SCORE
DISTRIBUTIONS FOR MENTAL TESTS
(METHOD 16).*

AD- 647 409
BINOMIAL ERROR MODELS IN MENTAL

UNCLASSIFIED

AD- 688 430

MEASURE

Development of literacy screening scales for AFQT 7 and 8 failures. AD- 411 227 MILITARY PERSONNEL

DEVELOPMENT OF ARMED FORCES

QUALIFICATION TEST AND PREDECESSOR
ARMY SCREENING TESTS, 1946-1950.*

AD- 000 191

PATTERN RECOGNITION
Program for the solution of a class of geometric-analogy intelligence-test question; machine analysis and solution to problems.

PHILIPPINES
A Culture-Fair Information Test
of Intelligence.*
AD- 717 629

RELIABILITY
Reprint: Jensen's theory of intelligence.
AD-701 486
Reprint: Jensen's theory of

intelligence: a rebuttal

AD- 701 487

SCIENTISTS
Identifying research
characteristics in high school
students; search methods for
scientific talent for military
personnel recruitment.

STATISTICAL ANALYSIS
The Attenuation Paradox and
Internal Consistency,*
AD- 722 868

STATISTICAL DISTRIBUTIONS

(Binomial Case) -- Expansion in a Estimating True Measurements Series of Beta Distributions, * from Fallible Measurements

Tailored Testing, An Application of Stochastic Approximation.* TEST CONSTRUCTION (PSYCHOLOGY) AD- 720 736

Development of Mental Test Theory and Methods.* AD- 737 205

GROUP DYNAMICS *JOB ANALYSIS

Effect of membership replacement upon team performance.

AD- 601 816

THE RELATIONSHIP OF INTELLIGENCE TEST SCORES TO THE EASE OF LANGUAGE CONDITIONING* AD- 267 566 * LANGUAGE

PERSONALITY LEADERSHIP

Participative Management, Member Intelligence, and Group Performance.*

AD- 756 657

Children's Responses to Raven's Longitudinal Study of Chinese A Six-Year Progressive Matrices. AD-A003 067 Reprint: LEARNING

Reprint: The Neuropsychiatric Implications of Illiteracy: 20 Years Later. AD-A005 242

Reprint: Schematic Concept Formation in Relationship to Mental Ability in Adolescents. INTELLIGENCE TESTS AD- 740 525

PSYCHOLOGICAL TESTS

PREDICTING CLASSROOM PERFORMANCE.* A LEARNING TEST APPROACH TO AD- 661 276

MEASURES OF LEARNING: RESIDUAL GAIN AND COMMON POINTS OF MASTERY.* THE RELATION BETWEEN TWO AD- 805 294

THE RELATION OF INTELLIGENCE TO THE ABILITY TO LEARN.*

*MEMORY (PSYCHOLOGY)

Theory and Method for Research on Aptitude Processes: Prospectus.* AD-A039 810

Reprint: The Neuropsychiatric Implications of Illiteracy: 20 *MENTAL DISORDERS Years Later.

*MILITARY PERSONNEL ATTRITION

AD-A005 242

Comparison of Navy and Air Force Administrative and Disciplinary Discharges, *

DEVELOPMENT OF ARMED FORCES QUALIFICATION TEST AND PREDECESSOR ARMY SCREENING TESTS, 1946-1950,* INTELLIGENCE TESTS AD- 000 191

SELECTION

scientific talent for military characteristics in high school students; search methods for Identifying research personnel recruitment. AD- 609 485

Navy Recruits.+ Reading Measurement of Proficiency among *NAVAL PERSONNEL AD-A031 823

APTITUDE TESTS *NAVAL TRAINING

JOB-PER

DEVELOPING A NAVY LITERACY TEST: ILLUSTRATED BY DEVELOPMENT OF TWO PARALLEL TEST FORMS.* RATIONALE AND PROCEDURE FOR AD- 710 192

AVIATION PERSONNEL

Relation of performance in aviation training to officer quality in the fleet. AD- 622 050

*NAVIGATORS

Research: Development of New Air Navigator-Observer Selection Navigator-Technical Composite. * Force Officer Qualifying Test AD-A042 689

*OFFICE PERSONNEL SELECT ION

achievement of air force academy Predicting first year cadets, class of 1964. AD- 606 868

MULTIPLE-CHOICE INTELLIGIBILITY *PERFORMANCE (HUMAN) INTELLIGIBILITY AD- 488 580

DEVELOPMENT OF ARMED FORCES QUALIFICATION TEST AND PREDECESSOR ARMY SCREENING TESTS, 1946-1950,* NUMERICAL ANALYSIS AD- 000 191

Jensen's theory of Reprint: THEORY

intelligence.

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*PERSONALITY LEADERSHIP

Participative Management, Member Intelligence, and Group Performance. .

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Estimating True Measurements from Fallible Measurements (Binomial Case) — Expansion in a Series of Beta Distributions,*

TEST CONSTRUCTION(FSYCHOLOGY)

Tailored Testing, An Application of Stochastic Approximation.*

AD-720 736

Development of Mental Test Theory and Methods.* AD- 737 205

AD- 737 205

*JOB ANALYSIS GROUP DYNAMICS Effect of membership replacement upon team performance. AD- 601 816 *LANGUAGE
THE RELATIONSHIP OF INTELLIGENCE
TEST SCORES TO THE EASE OF LANGUAGE
CONDITIONING*
AD- 267 566

AD- 267 566
*LEADERSHIP
PERSONALITY
Participative Management, Member
Intelligence, and Group
Performance.*

Reprint: A Six-Year
Longitudinal Study of Chinese
Children's Responses to Raven's
Progressive Matrices.
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Implications of Illiteracy: 20
Years Later.
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* LEARNING

INTELLIGENCE TESTS
Reprint: Schematic Concept
Formation in Relationship to Mental
Ability in Adolescents.
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PSYCHOLOGICAL TESTS

A LEARNING TEST APPROACH TO PREDICTING CLASSROOM PERFORMANCE.*

MEASURES OF LEARNING: RESIDUAL GAIN
AND COMMON POINTS OF MASTERY.*
AD- 805 294
THE DELATION OF INTELLIGENCE TO

THE RELATION OF INTELLIGENCE TO THE ABILITY TO LEARN.*

AD- 805 311

*MEMORY(PSYCHOLOGY)
Theory and Method for Research
on Aptitude Processes: A
Prospectus.*

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Reprint: The Neuropsychiatric
Implications of Illiteracy: 20
Years Later.
AD-A005 242

*OFFICE PERSONNEL

*MILITARY PERSONNEL
ATTRITION
Comparison of Navy and Air Force
Administrative and Disciplinary
Discharges,*
AD- 752 500

INTELLIGENCE TESTS
DEVELOPMENT OF ARMED FORCES
QUALIFICATION TEST AND PREDECESSOR
ARMY SCREENING TESTS, 1946-1950,*

SELECTION

Identifying research
characteristics in high school
students; search methods for
scientific talent for military
personnel recruitment.

*NAVAL PERSONNEL

Measurement of Reading

Proficiency among Navy Recruits.*

AD-A031 823

APTITUDE TESTS
D-3

*NAVAL TRAINING

RATIONALE AND PROCEDURE FOR DEVELOPING A NAVY LITERACY TEST: ILLUSTRATED BY DEVELOPMENT OF TWO PARALLEL TEST FORMS.*

AVIATION PERSONNEL
Relation of performance in aviation training to officer quality in the fleet.
AD- 622 050

*NAVIGATORS

Navigator-Observer Selection
Research: Development of New Air
Force Officer Qualifying Test
Navigator-Technical Composite.*
AD-A042 689

SELECTION
Predicting first year
achievement of air force academy
cadets, class of 1964.
AD- 606 868

*PERFORMANCE(HUMAN)
INTELLIGIBILITY
MULTIPLE-CHOICE INTELLIGIBILITY
TEST,*
AD- 488 580

NUMERICAL ANALYSIS
DEVELOPMENT OF ARMED FORCES
QUALIFICATION TEST AND PREDECESSOR
ARMY SCREENING TESTS, 1946-1950, *

THEORY
Reprint: Jensen's theory of intelligence.
AD-701 486
intelligence: a rebuttal.
AD-701 487

LEADERSHIP
Participative Management, Member
Intelligence, and Group
Performance.

*PERSONALITY

UNCLASSIFIED

ZOMOS

AD- 756 657

*PERSONNEL

EFFECT OF VARIATIONS IN ANXIETY,

PERSONAL THREAT AND RACIAL

ENVIRONMENT ON TASK PERFORMANCE OF

NEGRO COLLEGE STUDENTS*

*PERSONNEL SELECTION
Navigator-Observer Selection
Research: Development of New Air
Force Officer Qualifying Test
Navigator-Technical Composite.*
AD-A042 689

*PRISONERS OF WAR

*PRISONERS OF WAR

Reprint: Intelligence Test

Performance of Vietnam Prisoners of

War Two Years Post-Return.

AD-A034 554

*PROBABILITY
GROUP DYNAMICS
THE EFFECT OF CONCEPTUAL
COMPLEXITY AND GROUP DISCUSSION ON
RISK-TAKING AND JUDGMENTAL
BEHAVIOR,*
AD- 658 187

*PROBLEM SOLVING
CONFORMITY
THE RELATION BETWEEN CONFORMITY
AND PROBLEM SOLVING.*
AD- 711 031

*PSYCHDLINGUISTICS
Intelligence and the LanguageBound Effect.*
AD-A043 770

*PSYCHOLOGICAL TESTS

The Influence of Test Context on Item Difficulty.*

AD- 772 564

LEARNING

THE RELATION OF INTELLIGENCE TO THE ABILITY TO LEARN.*

AD- 805 311

REVIEWS
PROJECT ON TECHNIQUES OF
OBJECTIVE FACTOR ANALYSIS.*
AD- 712 841

SEMANTICS
INTELLECTUAL ABILITIES OF
SYMBOLIC AND SEMANTIC JUDGMENT,*
AD- 651 222

STATISTICAL ANALYSIS
Reprint: Mental test theory.
Volume 1. The foundations of
mental measurement theory.
AD- 657 869

Reprint: Mental test theory.
Volume II. The classical test
theory model. Section 1.
AD- 657 869

Reprint: Mental test theory.
Volume II. The classical test
theory model. Section 2.
AD- 657 870
Reprint: Mental test theory.
Volume III. Other weak true-score
models.

AD- 657 871
Reprint: Mental test theory.
Volume IV. Validity and test
construction theory. Section I.
AD- 657 872

AD- 657 872
Reprint: Mental test theory.
Volume IV. Validity and test
construction theory. Section 2.
AD- 657 873
Reprint: Mental test theory.
Volume VI. Strong true-score

TEACHING MACHINES
Learning set formation in programmed instruction.
AD- 609 802

AD- 657 875

TEST METHODS

DEVELOPMENT OF TEST THEORY AND

METHODS.*

AD~ 688 463

*PSYCHOMETRIC TESTS D-4

UNCLASSIFIED

PSYCHOL

A reprint from Psychological
Reports, 1960, 255-265, on the
General Orientations Profile (GOP):
Validation Studies.
AD- 415 864

*READING

Measurement of Reading Proficiency among Navy Recruits.* AD-A031 823 The Relationship between

Reasoning Ability and Gain in Reading Ability.* AD-A043 687 TEST CONSTRUCTION(PSYCHOLOGY)
RATIONALE AND PROCEDURE FOR
DEVELOPING A NAVY LITERACY TEST:
ILLUSTRATED BY DEVELOPMENT OF TWO
PARALLEL TEST FORMS.*

*REASONING

The Relationship between
Reasoning Ability and Gain in
Reading Ability.*
AD-A043 687
ANALYSIS
PROJECT ON TECHNIQUES OF
OBJECTIVE FACTOR ANALYSIS.*

FACTOR ANALYSIS
Factor analysis of evaluation and judgment abilities of individuals.

AD- 457 523

AD- 712 841

*RECRUITING PSYCHOLOGICAL TESTS

PSYCHOLOGICAL TESTS
Comparative Performance of Male
and Female Enlistees on Air Force
Selection Measures,*
AD-726 531

*RECRUITS
AFQT: Historical Data (1958-1972).*
AD-A014 315

Measurement of Reading Proficiency among Navy Recruits.* AD-A031 823

Information and scientific PERFORMANCE (HUMAN) creativity. AD- 609 486 * SCIENTISTS

PERFORMANCE(HUMAN)
MULTIPLE-CHOICE INTELLIGIBILITY SPEECH RECOGNITION

AD- 488 580

students; search methods for scientific talent for military characteristics in high school Identifying research personnel recruitment. PSYCHOLOGICAL TESTS AD- 609 485 *STUDENTS

PERCEPTION(PSYCHOLOGY)
INTELLECTUAL ABILITIES OF
SYMBOLIC AND SEMANTIC JUDGMENT.* AD- 651 222 *SYMBOLS

Learning set formation in programmed instruction. PSYCHOLOGICAL TESTS *TEACHING MACHINES

The Impact of Classroom Assignments on Educational Outcome. *TEACHING METHODS **EFFECTIVENESS** Reprint: AD- 723 584

Development of literacy screening scales for AFQT 7 and 8 *TEST CONSTRUCTION (PSYCHOLOGY) INTELLIGENCE failures. AD- 411 227

*TEST CONSTRUCTION(PSYCHOLOGY)

The Influence of Test Context on Item Difficulty.*

AD- 772 564

A Simulation Study of

Stradaptive Ability Testing.* AD-A020 961

Tailored Testing, An Application of Stochastic Approximation. * AD- 720 736 ACCURACY

A Culture-Fair Information Test of Intelligence.* **EFFECTIVENESS** AD- 717 629

INTELLECTUAL ABILITIES OF SYMBOLIC AND SEMANTIC JUDGMENT,* AD- 651 222 FACTOR ANALYSIS

RATIONALE AND PROCEDURE FOR DEVELOPING A NAVY LITERACY TEST: ILLUSTRATED BY DEVELOPMENT OF TWO PARALLEL TEST FORMS.* AD- 710 192 READING

The Attenuation Paradox and Internal Consistency,* RELIABILITY

Identification and Measurement of Intellective Load Carrying Learning set formation in programmed instruction. TEACHING MACHINES *THRESHOLD EFFECTS *TRAINING DEVICES Thresholds.* AD-A009 159

The Influence of Test Context on Item Difficulty.* AD- 772 564 *VERBAL BEHAVIOR

AD- 609 802

D-5 UNCLASSIFIED

20MOS

TITLE INDEX

VFQT: Historical Data (1958-1972). AD- 281 547

Estimating True Measurements from Fallible Measurements (Binomial Case) -- Expansion in a Series of Beta Distributions.

ESTIMATING TRUE-SCORE DISTRIBUTIONS FOR MENTAL TESTS (METHOD 16). AD- 647 409 ESTIMATING TRUE-SCORE DISTRIBUTIONS FOR MENTAL TESTS (METHODS 12, 14, 15).

AD- 647 406

Comparative Performance of Male and Female Enlistees on Air Force Selection Measures,

BINOMIAL ERROR MODELS IN MENTAL

AD- 688 430

ESTING.

The Attenuation Paradox and

AD-A014 315

Internal Consistency,

AD- 722 868

Administrative and Disciplinary

Discharges,

AD- 752 500

Comparison of Navy and Air Force

AD- 726 531

A Culture-Fair Information Test of

Intelligence.

A FACTOR ANALYSIS OF THE SEMANTIC— EVALUATION ABILITIES. STUDIES OF APTITUDES OF HIGH-LEVEL PERSONNEL, AD- 457 523 A FACTOR ANALYSIS OF THE SYMBOLIC-EVALUATION ABILITIES. STUDIES OF APTITUDES OF HIGH-LEVEL PERSONNEL. AD- 464 259

THE GENERAL ORIENTATIONS PROFILE (GOP): VALIDATION STUDIES, AD- 415 864

QUALIFICATION TEST AND PREDECESSOR ARMY SCREENING TESTS, 1946-1950,

AD- 000 191

DEVELOPMENT OF ARMED FORCES

DEVELOPMENT OF LITERACY SCREENING SCALES FOR AFQT 7 AND 8 FAILURES,

AD- 411 227

Development of Mental Test Theory

and Methods.

AD- 737 205

DEVELOPMENT OF TEST THEORY AND

GENERALIZABILITY OF GAME PLAYING SKILL.
AD- 646 377

Identification and Measurement of Intellective Load Carrying Thresholds.
AD-A009 159

IDENTIFYING RESEARCH
CHARACTERISTICS IN HIGH SCHOOL
STUDENTS, A SECOND STUDY,
AD- 609 485

THE EFFECT OF CONCEPTUAL COMPLEXITY AND GROUP DISCUSSION ON RISK-TAKING AND JUDGMENTAL BEHAVIOR,

EFFECT OF VARIATIONS IN ANXIETY,
PERSONAL THREAT AND RACIAL
ENVIRONMENT ON TASK PERFORMANCE OF

NEGRO COLLEGE STUDENTS

The Impact of Classroom Assignments on Educational Outcome, AD- 723 584

The Influence of Test Context on Item Difficulty.

AD- 772 564 INFORMATION AND SCIENTIFIC

CREATIVITY, AD- 609 486

INTELLECTUAL ABILITIES OF SYMBOLIC AND SEMANTIC JUDGMENT, AD- 651 222

Intelligence and the Language-Bound Effect. AD-A043 770 Intelligence Test Performance of Vietnam Prisoners of War Two Years Post-Return, AD-A034 554

JENSEN'S THEORY OF INTELLIGENCE, AD- 701 486 JENSEN'S THEORY OF INTELLIGENCE: REBUTTAL, AD- 701 487

LEARNING PARAMETERS, APTITUDES, AND ACHIEVEMENTS
AD- 208 485

LEARNING SET FORMATION IN PROGRAMMED INSTRUCTION. AD- 609 802 A LEARNING TEST APPROACH TO PREDICTING CLASSROOM PERFORMANCE. AD- 661 276

Measurement of Reading Proficiency among Navy Recruits. AD-A031 823 MENTAL TEST THEORY. VOLUME I. THE FOUNDATIONS OF MENTAL MEASUREMENT THEORY.

MENTAL TEST THEORY. VOLUME II. THE CLASSICAL TEST THEORY MODEL. SECTION 1. AD- 657 869

> T-1 UNCLASSIFIED

20M06

MENTAL TEST THEORY. VOLUME II. THE CLASSICAL TEST THEORY MODEL. SECTION 2. AD- 657 870

MENTAL TEST THEORY. VOLUME III. OTHER WEAK TRUE-SCORE MODELS. AD- 657 871

MENTAL TEST THEORY. VOLUME IV.
VALIDITY AND TEST CONSTRUCTION THEORY. SECTION 2. AD- 657 873 MENTAL TEST THEORY. VOLUME IV.
VALIDITY AND TEST CONSTRUCTION
THEORY. SECTION I. AD- 657 872

MENTAL TEST THEORY. VOLUME VI. STRONG TRUE-SCORE THEORY. AD- 657 875 MULTIPLE-CHOICE INTELLIGIBILITY AD- 488 580 Navigator-Observer Selection Research: Development of New Air Force Officer Qualifying Test Navigator-Technical Composite.

of Illiteracy: 20 Years Later. AD-A005 242 The Neuropsychiatric Implications

Non-Verbal Technique for the Assessment of General Intellectual Ability in Selection of Aviation Personnel. AD- 728 844

Participative Management, Member Intelligence, and Group Performance. 40- 756 657 PREDICTING FIRST YEAR ACHIEVEMENT OF AIR FORCE ACADEMY CADETS, CLASS OF 1964.

AD- 606 868

A PROGRAM FOR THE SOLUTION OF A CLASS OF GEOMETRIC-ANALOGY INTELLIGENCE-TEST QUESTIONS.
AD- 609 845 PROJECT ON TECHNIQUES OF OBJECTIVE FACTOR ANALYSIS. AD- 712 841

DEVELOPING A NAVY LITERACY TEST: ILLUSTRATED BY DEVELOPMENT OF TWO PARALLEL TEST FORMS. RATIONALE AND PROCEDURE FOR AD- 710 192

THE RELATION BETWEEN CONFORMITY AND PROBLEM SOLVING. AD- 711 031

THE RELATION BETWEEN TWO MEASURES OF LEARNING: RESIDUAL GAIN AND COMMON POINTS OF MASTERY. AD- 805 294 THE RELATION OF INTELLIGENCE TO THE ABILITY TO LEARN.
AD- 805 311

THE RELATION OF PERFORMANCE IN AVIATION TRAINING TO OFFICER QUALITY IN THE FLEET. AD- 622 050

The Relationship between Reasoning Ability and Gain in Reading Ability.

AD-A043 687

THE RELATIONSHIP OF INTELLIGENCE
TEST SCORES TO THE EASE OF LANGUAGE
CONDITIONING AD- 267 566

Research to Improve Enlisted Classification Techniques AD- 605 281

Relationship to Mental Ability Schematic Concept Formation in

Adolescents, AD- 740 525 Simulation Study of Stradaptive Ability Testing. AD-A020 961 Six-Year Longitudinal Study of Chinese Children's Responses to Raven's Progressive Matrices. AD-A003 067 STRUCTURE-OF-INTELLECT FACTORS AND THEIR TESTS, 1966. STUDIES OF APTITUDES OF HIGH-LEVEL PERSONNEL. AD- 489 528

to Tailored Testing, An Application Stochastic Approximation. AD- 720 736

TEAMWORK UNDER TURNOVER AND SUCCESSION. AD- 601 816 A Theoretical Study of the Measurement Effectiveness of Flexilevel Tests. AD- 720 734

Aptitude Processes: A Prospectus. Theory and Method for Research on AD-A039 810

Validation of Experimental Electronics Selection Battery AD- 605 282

VOCATIONAL SELF CONCEPTS AND HIGH SCHOOL ACHIEVEMENT AD- 282 421

PERSONALITY TESTS

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD-A046 955 5/10 5/11
VIRGINIA POLYTECHNIC INST AND STATE UNIV BLACKSBURG

Unit Effectiveness and Leadership in a Changing Society.

3

DESCRIPTIVE NOTE: Final rept. Apr 74-Aug 77, NOV 77 243P Worchel, Philip ; Sgro, Joseph A.; Cravens, Richard W.; CONTRACT: DAHC19-74-G-0011 PROJ: 20161102874E MONITOR: ARI TR-77-TH-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Leadership, Behavior, Effectiveness, Sociology, Group dynamics, Personality tests IDENTIFIERS: AS74E, PE61102A

A program of field and laboratory research with college-military students is presented which was directed at examining the differential reaction of individuals to varying patterns of leadership behavior and social dynamics of groups. Focus is on the personality and situational factors that were felt to be related to attractiveness of a group and the willingness of group members to cooperate in the attainment of objectives Personality variables which are manipulated are locus-of-control, interpersonal trust, level of moral development and ego identity status. Situational variables are forms of influence by leaders, differential patterns of reward allocation and integrating conflict and cooperation. The results of five laboratory discussed in relation to prevailing theory. (U)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD-A045 793 5/10
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

U. S. and Norwegian Military Officers'
Personality Traits, Attitudes, Values and
Leadership Styles: A Cross-National
Comparison.

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DESCRIPTIVE NOTE: Master's thesis, DEC 75 76P Nilssen, Terje Meyer;

UNCLASSIFIED REPORT

DESCRIPTORS: *Leadership, *Officer personnel, Personality tests, Military forces(Foreign), Norway, Military forces(United States), Personality, Attitudes(Psychology), Value, Religion, Performance(Human), Motivation, Interpersonal relations, Comparison, Cross culture(Sociology), Theses

33

33

The California F Scale, and Mach V
Scale, the Study of Values, the Edwards
Personal Preference Schedule, and the Least
Preferred Coworker Scale were given to a group
of male Norwegian military officers (24 cases).
The results obtained on the 25 variables that the
battery comprised were compared with the results
obtained on the same instruments from groups of male
U.S. military officers (307 cases). The
U.S. officers were found to score significantly
higher (at the .05 level) on religious values as
measured by the Study of Values than did the
Norwegian group. The U.S. group also scored
significantly higher than the U.S. group on
Authoritarianism, as measured by the
FPPS. The Norwegian group was found to score
significantly higher than the U.S. group on
Authoritarianism, as measured by the F Scale.
The Norwegian group also scored significantly
higher than the U.S. group on Deference,
Order, Nurturance, Endurance, and Aggression,
as measured by the EPPS. (Author)

3

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF 5/10 AD-A045 580

Predictor of Reliable Personality Test The Comrey Validity Check Scale as a

3

Booth, Richard F. ; Norton, 8

Richard S.; REPT. NO. 76-29 PROJ: MPNO3 PROJ: MPN03 TASK: MPN0307

Psychological Measurement, 36 p1063-1067 1976. Availability: Pub. in Educational and JNCLASSIFIED REPORT

*Personality tests, Reliability, Predictions, Accuracy, Scaling factors, Measurement, Naval personnel, Paramedical sciences, Medical personnel, Reprints IDENTIFIERS: Comrey validity check, WU3011, DESCRIPTORS:

PE63706N

3 3

predictor of industrial and educational outcomes and that further research should be aimed at generating personality scales, suggests that generality of the Validity Check scale as an index of random or as an index of unreliable responding to the Comrey Personality Scales was evaluated on a sample of reliability of the personality scales; a high correlation between Validity Check scores and spilt-half difference scores on the Validity Check scale (r = .49), in contrast to the low correlations found with difference scores on the Validity Check scores obtained in a naturalistic 7960 Navy paramedical personnel. Validity Check scores were only slightly related to split-half indiscriminant responding may be limited to the Check scale should be considered as a potential Validity Check scale itself. Normative figures investigators to interpret the meaning of high Usefulness of the Comrey Validity Check scale setting. It was suggested that the Validity were produced which should assist future

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY 1-A044 259 5/9 AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHID SCHOOL OF SYSTEMS AND LOGISTICS AD-A044 259

3 Differences on Troubleshooting Performance A Study of the Impact of Personality

Hernandez, Florencio ; Coco DESCRIPTIVE NOTE: Master's thesis, JUN 77 227P Hern Terrell T. ;Hamm,John L. ; REPT. NO. AFIT-LSSR-33-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Electronic technicians, *Personnel Predictions, Correlation techniques, Aptitudes, Time dependence, Skills, Theses personnel, Air Force personnel, Instructional materials, Performance (Human), Effectiveness, selection, *Personality tests, Maintenance IDENTIFIERS: *Troubleshooting, Experience

33

different experience levels were not significant; and determining the extent to which differences in native be used to identify these technicians prior to actual which evaluated the performance of electronics maintenance technicians performing troubleshooting tasks using the standard T.O. and two experimental troubleshooting aids (Fully This study sought to determine if some maintenance between the average performances of technicians of ability for troubleshooting tasks, and, if so, to determine if personality assessment techniques cou evidence that some technicians possessed a higher performance improved with experience, differences level of native ability than others (experience, (3) personality attributes were not consistently technicians possessed a higher level of native assignment to technical training courses and subsequent career fields. The data used was collected by a previous AFHRL research project however, appeared to be an important factor in Proceduralized Troubleshooting Aids and Logic found that: (1) overall, there was little ability is evident); (2) although average Tree froublshooting Aids). The authors related to performance.

scales which can be used to detect invalid records. (U)

PAGE

PAGE

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND MASS 5/10 AD-A043 011

Personality Characteristics of U.S. Air The Measurement of Food Attitudes and Force Personnel in Alaska. DESCRIPTIVE NOTE: Technical rept., MAR 27 117P Stein, Earl S. : Meiselman, MAR 77 117P Starbert L. : REPT. NO. NATICK/TR-77/019 PROJ: 1L762724AH99

PROJ:

UNCLASSIFIED REPORT

*Personality, Meals, Air Force personnel, Food *Food, *Attitudes(Psychology), service, Personality tests, Alaska, Job satisfaction, Radar stations, Behavior, Questionnaires, Measurement IDENTIFIERS: WU006, ASH99, PE62724A DESCRIPTORS:

measures, and the use of a personality inventory. Six isolated radar bases and two main installations were sampled. The results indicated that, in general, personnel were coping well with the environment. There were no large-scale differences between isolated and control bases relative to food preferences or satisfaction with the food service. A study was conducted to determine food preferences satisfaction indicated that the greatest sources of system. Differences that did exist were location specific rather than attributable to isolation per included survey administration, job satisfaction in the context of isolated duty and the current status of available food service systems of Air dissatisfaction centered on pay and promotions. force personnel in Alaska. Methods of research se. An analysis of food service worker job (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX 5/10 AD-A042 689

Navigator-Observer Selection Research: Development of New Air Force Officer Qualifying Test Navigator-Technical Composite.

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DESCRIPTIVE NOTE: Final rept. Aug 72-Apr 77, MAY 77 15P Valentine, Lonnie D. , Jr; MAY 77 15P V REPT. NO. AFHRL-TR-77-36

TASK: PROJ:

UNCLASSIFIED REPORT

3 3 qualifying test, Officer candidates, Undergraduate training, WUAFHRL77191209, PE62703F Students, Qualifications, Aptitude tests, Psychological tests, Intelligence tests, Personality tests, Officer personnel, Air Force personnel, Air Force *Personnel selection, *Navigators, Performance(Human), Predictions, Validation IDENTIFIERS: Cognition, Air Force officer DESCRIPTORS:

EE

3 undergraduate navigator trainees, a large scale study was conducted to evaluate various experimental tests for possible use in a complete revision of the Air Force Officer Qualifying Test (AFOQT's)
Navigator-Technical composite. Forty-five noncognitive test scales and 17 experimental cognitive tests were administered to 507 students at the Officer Training School who subsequently entered undergraduate navigator training (UNT).
Analyses of these data — along with AFOQT data— - against training success indicated that, of the noncognitive materials, the only device with unique improvements in prediction over that achieved with the present AFOQT. Content of a revised AFOQT experimental cognitive tests provided substantial Toward the objective of improving selection of Navigator-Technical composite is recommended. follow-up work with this is recommended. The validity was the Personality Research Form;

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD-A040 254 5/10 OREGON UNIV EUGENE

Some Personality Correlates of Perceptions of and Reactions to Task Characteristics.

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DESCRIPTIVE NOTE: Technical rept.,
MAR 77 31P Stone, Eugene F.
REPT. NO. TR-11

CONTRACT: N00014-76-C-0164

UNCLASSIFIED REPORT

DESCRIPTORS: *Perception(Psychology),
*Personality, Jobs. Reaction(Psychology),
Personality tests, Assembly, Job satisfaction,
Work, Value, Correlation techniques
IDENTIFIERS: Task analysis, Individual
differences, WUNR170812

3 3

The degree to which individual differences variables influence perceptions of and reactions to task characteristics was examined in the present study. Subjects (N=46) were administered Jackson's (1967) Personality Research Form and the Group Embedded Figures Test of Witkin et al. (1971) in a group administration sessions. They then performed an assembly task in a laboratory setting and completed measures of (1) perceived task characteristics; and (2) immediate and projected task satisfaction. Correlational analyses showed that both perceptions of and reactions to task characteristics were influenced by the measured individual differences variables. The study's findings were related to previous theory and research on task design. (Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD-A039 650 5/9 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Investigation of Goaling Models for Navy Recruiting.

3

DESCRIPTIVE NOTE: Master's thesis, MAR 77 43P Donelan, John Oliver;

UNCLASSIFIED REPORT

DESCRIPTORS: *Recruiters, *Recruiting,
Effectiveness, Personnel selection, Naval
personnel, Personality tests, All volunteer,
Recruits, Goal programming, Motivation,
Mathematical models, Regression analysis, Negroes,
Unemployment, Theses

3

This study reviews previous works which investigated goaling models for the Navy's recruiting effort. Nine models were examined for their goaling potential, and five were selected for further analysis. The results of the analyses supported previous reports that canvassers, unemployment, and the number of qualified military available (QMA) males within a Recruiting District exerted a positive influence on accessions, and that the black QMA of a district had a negative coefficient associated with it. Because of the high level of significance of the recruiters, it is recommended that a future study attempt to identify the attributes of an effective recruiter. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

H-A038 786 5/10 5/1 WICHITA STATE UNIV KANS CENTER FOR HUMAN APPRAISAL AND COMMUNICATION RESEARCH ND-A038 786

Personality and Superordinate/Subordinate Role Behavior.

3

Fiechtner, Leslie A. ; Sweney, DESCRIPTIVE NOTE: Technical rept., MAY 75 Arthur

CONTRACT: AF-AFOSR-2001-71

TR-77-0500 AFOSR 9778 MONITOR:

UNCLASSIFIED REPORT

3 3 Supervisors, Military commanders, Army personnel, Air Force personnel, Industrial personnel, Management training, Psychological tests, Superordinates(Personnel), Role preference, Role pressure, Middle management, WUAFOSR977801, Personality tests; Correlation techniques DENTIFIERS: Subordinate superior relations, *Personality, Roles(Behavior), Effectiveness, Motivation, Group dynamics, Power, Reaction(Psychology), Leadership, *Interpersonal relations, *Management, ESCRIPTORS:

of samples from different studies and varied situations -- for a total sample size of 718 -- were personality, motivation, and superordinate/ subordinate role preference and pressure. A number consistently appear with specific superordinate or manufacturing, and military environments. All or part of the Following instruments were subordinate role preferences and role pressures. This research examines the relationship between analysis was performed comparing Air Force and examined. Subjects were from sales, academic, environment. The findings show that there are Army personnel with managers in an industrial Power Measure, Supervise Ability Scale, and Responsibility Index. A correlation of administered: 16 Personality Factor Tests, Motivational Analysis Test, Response to personality and motivational factors that

UNCLASSIFIED

SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF AD-A037 476

Identification of Psychiatric Vulnerability: An Overview.

3

Schuckit, Marc A. ; Gunderson, 7 FEB 74

E. K. Eric; REPT. NO. 74-28

MF51524002 F51524 TASK:

UNCLASSIFIED REPORT

tests, Psychiatry, Personality tests, Predictions, Vulnerability, Hospitalizations, Emotions, Naval personnel, Marine Corps personnel *Mental disorders, *Psychological DESCRIPTORS:

33

While the measures were statistically significant in predicting future ill populations, they failed to in establishing the clinical significance of these tests, a prospective study of the HOS and SRE in about 6,000 Navy men and Marines was outlined. establish a homogeneous high risk group. This finding is not surprising considering the low base rate of significant illness, the problems of case definition, and the length of time between initial measurement and outcome. vulnerability in military populations is reviewed with special emphasis on the MMPI, CMI, SRE, and HOS. To illustrate one series of procedures The history of prediction of psychiatric

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

AD-A031 795 NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF 5/10

ZOMOS

SEARCH CONTROL NO.

DDC REPORT BIBLIOGRAPHY

AD-A037 319

 $\widehat{\boldsymbol{\varepsilon}}$ Disposition and Organizational Effectiveness of Personality Disorders in a Military Setting,

Erickson, Jeanne M. ; Edwards Darrel ; Bucky, Steven F. ; PROJ: FEATT 19

MF51524002 TASK:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Proceedings of Annual Convention of the American Psychological Association (81st), v8 pt2 p729-730 1973.

Ê 3 personnel, Stress(Psychology), Military psychology, Effectiveness, Military organizations, Emotions, Psychological tests, Behavior IDENTIFIERS: *Personality disorders, Cornell medical index, WUS015DX5F DESCRIPTORS: *Personality, *Personality tests *Mental disorders, Naval personnel, Enlisted

3 two groups of Navy enlisted personality disorders were analysed. MMPI profiles for one group showed that statement of pathology for these individuals were virtually indistinguishable from the responses of schizophrenics. The Cornell Medical Index (a self-evaluation of physical and emotional problems) was administered to another group of personality disorders. Their patterns of responses were such that determination of which patients were severely disturbed and which were merely responding in a way that might lead to getting out of the service could not be conclusive. Clearer symptoms and effective performance are necessary to assist clinical decisions if the Navy is to be served and Navy personnel is to benefit. In an attempt to define clinical characteristics of the personality disorder who functions in the Navy, definitions of the relationship between patients' (Author)

1-A031 795 5/10 5/5 AKRON UNIV OHIO DEPT OF PSYCHOLOGY

The Relationships among Measures of Work Orientation, Job Attribute Preferences, Personality Measures, and Abilities.

3

Alexander, Ralph A. ; Barrett, Gerald V. : Forbes, J. Benjamin : Balascoe, Leslie L. : O'Connor, Edward J. : DESCRIPTIVE NOTE: Technical rept., N00014-74-A-0202-0001 36P 75 REPT. NO. AUG

UNCLASSIFIED REPORT

Perception(Psychology), Work, Value, Job satisfaction, Skills, Students, Naval personnel, DESCRIPTORS: *Jobs, Test construction(Psychology), Attitudes(Psychology), Personality tests, Psychological tests, Job analysis, Job design, Responsibility Factor analysis IDENTIFIERS:

33

structural attributes. Contrary to previous assumptions in the literature, individual preferences for such job attributes as variety, learning new skills, responsibility etc. were found to be significantly and differentially related to individual job related abilities, interests and value addition, generally low relationships were found to exist among different measures of preference for job Analysis indicated that different measures of intrinsic and extrinsic orientation were neither operationally nor conceptually equivalent. In orientations. (Author)

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ZOWOZ DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

-4027 939 5/10 5/9
NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF

Correlates and Implications of Continued Participation in a Longitudinal Survey.

E

Norton, Richard S. ; Booth, FEB 76 12P Norton.R Richard F: ;Webster,Evelyn G: ; REPT. NO. 75-66 DESCRIPTIVE NOTE: Final rept.,

UNCLASSIFIED REPORT Availability: Pub. in the Unl. of Psychology, 93 p61-69 1976. DESCRIPTORS: *Psychological tests, *Surveys, *Paramedical sciences, Personality tests, Volunteers, Education, Variables, Reprints IDENTIFIERS: *Longitudinal surveys

33

characteristics, and survey responses of 784 enlisted men and women students at the Naval School of Health Sciences, San Diego. Ss who responded to all three administrations of the survey instrument thigher General Classification Test (verbal aptitude) and Arithmetic Reasoning Test (arithmetic aptitude) scores, difference variables found to be related to continued had completed more years of schooling with fewer suspensions or expulsions from school, and had higher schooling experiences, arrest history, personality repeated-measures survey was established. Comparisons were made to determine whether degree (WES) were related to the degree of participation on two of the 10 subscales, but the differences, participation in a repeated-measures survey were of participation was related to aptitude, prior social conformity scores on the Comrey
Personality Scales than Ss who did not continue
participating. Responses to successive
administrations of the Work Environment Scale while statistically significant, were of little similar to variables reported previously to be practical importance. Overall, the individual research projects using measures like the WES. devolunteering does not appear to bias survey experiment or survey. Furthermore, in survey A three-level gradient of participation in a related to volunteering at the outset of an outcomes significantly.

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF AD-A025 533

Reliability and Stability of the Comrey Personality Scales,

3

Norton, Richard S. ; Booth, 94 FEB

Richard F. ; REPT. NO. 75-73 MPNO3

MPN03-07

TASK:

Availability: Pub. in Psychological Reports, 38 p767-770 1976. UNCLASSIFIED REPORT

DESCRIPTORS: *Personality tests, Psychological tests, Stability, Reliability, Statistical analysis, Comparison, Reprints
IDENTIFIERS: Comrey personality scales, Hospital Corpsmen

3 3

> separated by about five months. Corrected splithalf reliabilities for the eight personality trait scales were between .66 and .94, with an average of .87, on the first administration and between .68 and administration. Retest reliabilities for these each administration revealed significant differences on Seven of the eight personality trait scales, the Validity Check scale, and the Response Bias scale. On all of these scales, except the Validity Check, the first administration means Split-half and retest reliabilities were computed on Comrey Personality Scales administered to average of .66. t-tests comparing scale means for were higher than the second administration means. eight scales were between .59 and .74, with an 153 Navy Hospital Corpsmen on two occasions

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(Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

STANFORD UNIV CALIF GRADUATE SCHOOL OF BUSINESS

Manager Development: A Conceptual

Price, Raymond L. ; Harrell, DESCRIPTIVE NOTE: Technical rept., MAY 76 32P Thomas W. :

CONTRACT: NO. TR-11 CONTRACT: NO0014-76-C-0009 PROJ: NR-170-755

UNCLASSIFIED REPORT

3 3 training, Motivation, Salaries, Personality tests, Vocational guidance, Leadership, Management, Predictions, Effectiveness, Analysis of variance, DESCRIPTORS: *Personnel development, *Executives, Organization theory, Careers, Ranking, Scale IDENTIFIERS: *Managers, Job rotation, Successful Models, Performance (Human), Management

The purposes of the model are: (1) To provide a framework for understanding the results of the Stanford longitudinal managerial studies while A conceptual model of management development has been drawn in an attempt to interpret and integrate the effects of individual characteristics, situational factors, and career paths and stages. integrating the results of studies from Brighman Young University, Carnegie-Mellon, M.I.T., and other studies; and (2) To

sophistication of the organization; and growth mode. out of school. Situational factors that appear to be salient are size of organization; technological Career stages include the paths to general management and the rotation of functional fields. M.I.T., and other studies; and (4) to generate Hypotheses that can be tested with the Stanford data set. Personality traits (most prominently Ascendance or Social Boldness, maturely directed Energy, and Social Harrell that predicted earnings and achieving a managerial progress. Two overlapping scales, a High Earners' Scale and a General Managers' General Manager Position in five to ten years Scale, were developed by Thomas and Margaret

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF AD-A024 941

Background and Personality Characteristics Performance in Field Medical Service Related to Student Satisfaction and

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DESCRIPTIVE NOTE: Interim rept., 76 15P Booth,Richard F.; McNaily, School.

3

Michael S. ; Berry, Newell H. ; REPT. NO. 76-19 PROJ: MFN03

MPN03-07

UNCLASSIFIED REPORT

training, Performance(Human), Enlisted personnel, Naval personnel, Personnel management, Job satisfaction, Aptitude tests, Personality tests, Background, Job training IDENTIFIERS: Hospital corpsmen, Fleet marine *Paramedical sciences, *Military force, *Health manpower education DESCRIPTORS:

3 3

> environmental perceptions were unrelated to academic performance was accounted for largely by a student's aptitude test scores (GCT + ARI) and previous and Activity scales than those individuals who were was significantly related to student perceptions of performance during the 5-week FMSS training course. Those individuals who were satisfied with an assignment to the FMF were more likely to have volunteered for FMF duty, to have been satisfied with having been designated an HM, and to have had higher scores on the Comrey Social Conformity the training environment, student satisfaction and not satisfied with assignment to the FMF.
> Although satisfaction with assignment to FMF duty performance. The explained variance in academic Aptitude, background, and personality characteristics of 640 Navy Hospital Corpsmen (HMs) were related to satisfaction with assignment to the Fleet Marine Force (FMF), perceptions of the Field Medical Service School (FMSS) environment, and academic

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experience as an HM (pay grade).

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY ZOMOS

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

predictive Validity of the Biosystem Personnel Test Battery: Preliminary

-A018 979 5/10 5/9 BEHAVIORMETRICS SANTA MONICA CALIF

AD-A018 979

ARMY WAR COLL CARLISLE BARRACKS PA AD-A017 046

Psychological Needs and Perceived Presses-USAWC Class 1975.

3

Blanchard, Robert E. ;

3

DESCRIPTIVE NOTE: Individual research project rept., MAY 75 52P Churchill, Ralph T.;

UNCLASSIFIED REPORT

*Psychological tests, *Personality tests, Students, Army training, Organizations, Requirements, Barriers, Questionnaires, Statistical data, Stress(Psychology), Motivation, Scientific research, Indexes (Ratios), Environments DESCRIPTORS:

IDENTIFIERS: Psychological needs, Organizational press, Organizational climate, Recommendations

3 3

assigned to the class 139 voluntarily and anonymously participated in the project. Data collected during perceived organizational impediments. Both instruments are 300 ifem questionnaires which were developed and tested by Dr. George G. Stern, Syracuse University. Of the 228 students This paper documents research which measured the environment. The instruments used to conduct the research were the Stern Activities Index, which psychological needs and personality profiles of students who attended the USAWC during Academic Year 1975 and their perceptions of the College measures psychological needs, and the Organizational Climate Index, which measures

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the research are summarized in six tables.

UNCLASSIFIED REPORT

103-5 N00123-73-C-1105

REPT. NO.

89P

Analysis,

UPPLEMENTARY NOTE: See also report dated Jun 73, AD-A018 978 and report dated Sep 74, AD-A018 981. SUPPLEMENTARY

3 *Psychological tests, *Instructors, •Marine biology, Achievement tests, Personality tests, Jobs, Attitudes(Psychology), Reliability, Naval training, Mammals IDENTIFIERS: Biosystems personnel test battery, Vocational interests, Marine mammal trainers, Performance(Human), Predictions, Correlation techniques, Questionnaires, Test methods, DESCRIPTORS:

3 Job success prediction

marine mammal trainer performance rating checklist. (U) variables including tests of ability, personality and preference inventories and a personal history questionnaire (PMQ). Criterion variables were 11 job performance dimensions, identified in an earlier study, and an overall global criterion of performance. Subjects were 30 experienced marine mammal trainers for which test battery data had been gathered over a period of several years. Ten supervisors rated the 30 subjects on each of the A preliminary validation study was conducted on the criterion dimensions using a specially-constructed Battery. The battery consisted of 22 predictor predictors of the Biosystem Personnel Test

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

NAVAL ACADEMY ANNAPOLIS MD AD-A015 961

A Determination of Neurological Differences etween Individuals as Related to their Psychological/Motivational Differences.

Ξ

Woods, Wayne A. DESCRIPTIVE NOTE: Research rept., USNA-TSPR-74 72P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on a Trident Scholar Project.

3 *Electroencephalography, *Neurology, tests, Naval personnel, Performance(Human), Correlation techniques, Questionnaires IDENTIFIERS: Cornell word form test, Personality Psychological tests, Motivation, Performance *Personality tests, Brain, Waves, Voltage, DESCRIPTORS:

3 factor questionnaire, Motivation analysis test, Athletic motivation inventory, Midshipmen

hypothesis was that voltage levels produced by brain wave activity would be significantly different between high and low scorers on specified pyschological/motivational variables. A psychological/motivational profile was obtained for each of 76 sobhomore students at the Naval Academy from the results of 4 tests: (1) Cornell word Form Test (CWF-2): (2) 16 personality Factor Questionnaire (16pF); (3) Motivation Analysis Test (MAT); and (4) Athletic Motivation Inventory (AMI). personality which heretofore were considered to exist only within the 'mind'. measured by brain wave characteristics - are related variance test was performed to determine significant adjustment had significantly lower voltage levels at to their psychological/motivational profiles. The neurological differences between individuals - as measurement of each subject. A simple analysis of individuals with probably a 'better' personality differences (p .05) between mean voltage levels frequencies above 20 hertz. Results have demonstrated the ability to quantify aspects of of high and low groups. Findings indicate that This study was conducted to determine if

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J 5/10 AD-A015 027

Research on Assessing Human Abilities.

3

DESCRIPTIVE NOTE: Final rept. 1 Nov 70-31 Mar 75, JUL 75 27P Harman, Harry H.; JUL 75 27P Har REPT. NO. ETS-PR-75-20 CONTRACT: N00014-71-C-0117

UNCLASSIFIED REPORT

PROJ: NR-150-329

construction(Psychology), *Personality tests, *Achievement tests, Factor analysis, Standards, Validation, Aptitudes, Memory(Psychology), Perception(Psychology), Skills, Reasoning, Language, Leadership, Emotions, Attitudes(Psychology) IDENTIFIERS: Cognition, Temperament DESCRIPTORS: *Personality, *Test

33

been to conduct research in the area of factor analysis directed toward the identification of tests and other instruments that can serve as markers for to reference measures for self-report temperament factors. The overall objective of the project has The focus of this study was explicitly on two cognitive factors; and (2) To provide a guide areas: (1) To provide reference measures for well-established factors.

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF 5/10 AD-A007 655

An Analysis of Military Personality Through Self-Report.

3

Robertson, Herbert Milton; DESCRIPTIVE NOTE: Master's thesis, 64P

UNCLASSIFIED REPORT

DESCRIPTORS: *Officer personnel, *Personality tests, Personnel selection, Training, Attitudes(Psychology), Motivation, Behavior, Warfare, Theses

3

psychological and sociological characteristics of the military personality, who has performed in an optimum manner in his intended role could be identified, a more positive program of selection, training and organization, at the outset, would be possible. A secondary purpose of this study is to compare the personality variables, through the use of a testing medium, would differentiate military officer personnel of the Navy Line and Staff who have representative testing vehicle to arrive at derived matched for general age, range, and socio-economic status for an evaluation of the military-civilian had recent combat experience in Vietnam. If the combined military sample to a civilian sample, The purpose of this study was to determine if personality structure. The Edwards Personal Preference Schedule (EPPS) is used as the

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conclusions.

-A009 450 5/10 5/9
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO Gunderson, E. K. Eric; Introduction, Psychologica Studies in NO. NMNRU-71-14 MF12-524 Antarctica.

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AD-A009 450

UNCLASSIFIED

3

Availability: Pub. in Antarctic Research Series, v22 p115-131 1974. UNCLASSIFIED REPORT

MF12-524-001

TASK: REPT.

selection, Antarctic regions, Isolation, Confined environments, Adjustment(Psychology), Morale, Attitudes(Psychology), Stress(Physiology), Stress(Psychology), Winter, Predictions, Naval personnel, Civilian personnel, Comparison, *Psychological tests, *Personnel Personality tests, Compatibility, Emotions, Motivation, Job satisfaction, DESCRIPTORS:

3 Clinical evaluations by psychologists and psychiatrists, biographical information, and attitude prediction of individual and group adjustment during the antarctic winter were determined, and a high degree of specificity in the relevance of screening studies of antarctic personnel since 1963. A series general concept of effective individual performance that included three essential behavioral occupational subgroups was found. Navy men showed significant deterioration in morale or satisfaction predictors for the various behavioral criteria and during the winter months, whereas civilians showed little or no change. Thus occupational role was an and social compatibility. The contributions of the and personality tests have been used in selection nominations as performance criteria resulted in a components: emotional stability, task motivation, mportant determinant of job satisfaction during various sources of screening information to the long-term isolation and confinement. (Author) of studies using supervisor ratings and peer

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOZ

EDUCATIONAL TESTING SERVICE PRINCETON N

Seeking Markers for Temperament Factors among Positive and Negative Poles of Temperament

Scales.

3

French, John W. ; Dermen, DESCRIPTIVE NOTE: Technical rept.,

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Bucky, Steven F. ; Edwards,

DESCRIPTIVE NOTE: Interim rept.,

74

Darrel :

NMNRU-73-50 70

REPT. NO.

UNCLASSIFIED REPORT

*Personality tests, *Applied psychology, Factor analysis, Scale, Hypotheses IDENTIFIERS: DESCRIPTORS:

3 3

Temperament, Positive and negative

3 This report covers part of a project designed to develop and to make available to research workers markers for some of the temperament factors that have been established in the factor-analytic literature. An earlier report describes 28 such factors and were divided such that each pole was represented by a subfactors, when placed in a factor analysis, would two factor analyses in which some of the subfactors is described as a positive pole versus a negative defines several divisions of each. Each subfactor have salient loadings. The present report covers pole. It was hypothesized that scales for these separate variable.

AD-A003 551

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO

ND-A003 575

CALIF

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

The Recruit Temperament Survey (RTS) as it Discriminates between Psychoses, Neuroses, and Personality Disorders.

ETS-PR-74-22, TR-7 N00014-71-C-0117 26P DEC 74 Diran ;

CONTRACT: N00014-PROJ: NR-150-329

Availability: Pub. in Jnl. of Clinical Psychology, v30 n2 p195-199 Apr 74. UNCLASSIFIED REPORT PROJ: MF51.524 TASK: MF51.524.002

DESCRIPTORS: *Psychiatry, *Mental disorders, *Hospitals, Personality, Predictions, Personality tests, Medical services, Patients, Neuroses, Psychoses, Questionnaires, Naval personnel, Reprints

33

Center, was able to predict hospitalization vs no-hospitalization and also had considerable power to predict then sorts of overall psychiatric categories. psychiatric, 981 as neurotic, and the other 2864 as personality disorders. An amnibus type of scale from a sample of 4,425 Navy enlisted men hospitalized during this first enlistment for some psychiatric illness, 580 were diagnosed as developed at Great Lakes Naval Training (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 814 862 5/10 5/9
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO
CALIF

PERSONALITY CHARACTERISTICS (EPPS) OF ANTARCTIC VOLUNTEERS, (U)

DEC 62 16P Ford, Kenneth A.; Gunderson, E. K. Eric; REPT. NO. NMNRU-62-18

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY, PERSONNEL), (*PERSONNEL, ANTARCTIC REGIONS), STRESS(PSYCHOLOGY), CIVILIAN PERSONNEL, NAVAL PERSONNEL, PERSONALITY TESTS, CONFINEMENT(PSYCHOLOGY), MOTIVATION (U) IDENTIFIERS: INTERPERSONAL RELATIONS, VOLUNTEERS (U)

The Navy Antarctic volunteer sample differed from the Edwards male college normative sample on all of the EPPS scales and from Edwards' male general adult sample on twelve of the fiteen EPPS scales. The civilian volunteer sample differed form Edwards general adult sample on eleven of the fifteen EPPS scales; however, the mean scale scores form Edwards' goodlege sample were highly correlated. The Navy and civilian volunteer groups differed on relatively few variables and the differences tended to be relatively small. Age and education appear to be correlated with a number of EPPS variables and should be examined in comparative studies. The intercorrelation matrix for Antarctic volunteers closely resembles that for Edwards' normative sample. Psychologically meaningful clusters of EPPS scales with apparent high consistency over several populations were described. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 800 334 5/10 EDGEWOOD ARSENAL MD A DESCRIPTION OF THE PERSONALITY CHARACTERISTICS OF ENLISTED VOLUNTEERS FROM THE FOURTH, FIFTH, AND SIXTH US ARMY AREAS, 1965.

DESCRIPTIVE NOTE: Special publication Jun-Dec 65, OCT 66 25P Hart, James J.; REPT. NO. EA-SP-100-8 PROJ: DA-1-C-522301-A-079

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY, *MILITARY PERSONNEL),
PSYCHOLOGICAL TESTS, PERFORMANCE(HUMAN), CLASSIFICATION,
BEHAVIOR, DRUGS, EFFECTIVENESS, APTITUDE TESTS,
STATISTICAL ANALYSIS, STANDARDS

3 possibly as a result of variations in the size of the Research program of these laboratories in 1965 are described. Although the military purpose of drug testing is to predict the effects of the compound on generally quite different from the so-called general adult norm group and the typical enlisted man whose generalizability of our findings may be questioned. reason to believe that our subject samples are not pool from which the volunteers are selected. They Certain dimensions of personality and ability of enlisted men from the Fourth, Fifth, and Sixth US Army areas who volunteered for the Medical We conclude that our samples do vary in ability, representative of such a population. The purpose of this paper is to subject this question to a personality characteristics, although they are preliminary experimental test. For if there is the average soldier, it has not been clearly demonstrated that the subjects tested by the seem to be relatively alike with respect to behavior we are trying to predict. (Author) representative of an Army population, the Clinical Research Department are in fact

AD- 783 775 5/10 5/9
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Personality and Performance.

DESCRIPTIVE NOTE: Master's thesis, JUN 74 65P Crews, Jeffrey Wiley; Cummings, Jeffrey William.;

UNCLASSIFIED REPORT

DESCRIPTORS: *Personality tests,
*Performance(Human), Theses, Naval personnel,
Naval training
IDENTIFIERS: Evaluation

33

3 seeking a predictive relationship was also addressed. training program, the discovery of such a predictive relationship would have little benefit in assessing how well the Academy is preparing officers for unior officers duties, and evaluation of graduates suggested little that would indicate a relationship personality as measured by the 16PF could be used to predict future fleet performance as measured by in these areas would better satisfy that purpose. aspects of these qualities perhaps are not being between personality and performance as they are measured by the two surveys. Performance and personality could be related, but the important measured by the survey devices. The motive for fleet duties. A job descriptive inventory of Within the context of the Academy's current The Sixteen Personality Factors Questionnaire (16PF) and the Performance Evaluation Report (PER), two survey devices used by the U.S. Naval Academy were critically evaluated. The hypothesis that the PER was investigated. This analysis Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS AD- 783 722 5/9 STANFORD UNIV CALIF GRADUATE SCHOOL OF BUSINESS

The Relation of Verbal and Quantitative Scores to Manager Success.

3

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DESCRIPTIVE NOTE: Technical rept. no. 5, 25 Jun-9 Aug 74,

Aug 74 19P Harrell, Thomas W. ; Harrell, Margaret S. ; CONTRACT: N00014-67-A-0112-0073

TASK: NR-170-755

UNCLASSIFIED REPORT

DESCRIPTORS: *Supervisors, *Personality,
Personality tests, Correlation techniques
IDENTIFIERS: *Managers, Successful careers

33

A longitudinal study at ten years out of graduate school has been completed for 205 men. This has related their Verbal (V) and Quantitative (Q) scores on the Admissions Test for Graduate Study in Business (ATGSB) to several criteria of business manager success. Noted is the negative relation of V scores to reaching a General Manager (GM) position and to compensation. The lowest decile in V exceeded the highest decile in both criteria. This counter-intuitive finding can be understood in the non-cognitive personality pattern present. Lowest decile men were superior in ascendance, social extroversion, in scores on a decisiveness scale, preference as friends, and had more of an authoritarian personality. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

1-777 703 5/10 5/9
NAVAL SUBMARINE MEDICAL RESEARCH LAB GROTON CONN AD- 777 703

Biographical Profiles and Related Data. Submarine Service. III. Characteristic Factors Related to Drug Abuse in the

3

DESCRIPTIVE NOTE: Medical research progress rept. no. 1, Weybrew, Benjamin B. ; Noddin,

SEP 73 41P Ernest M. : REPT. NO. NSMRL-764 PROJ: MF51.524

MF51.524.004 PROJ:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 2 Feb 73, AD-763 401.

*Personality tests, Biographies, Sampling, Factor analysis, Statistical distributions, Social psychology, Education, Mental health, Criminology, *Submarine personnel, *Drug abuse, DESCRIPTORS:

IDENTIFIERS: Age. Abilities

33

41), this study was designed to reexamine certain of the findings reported in earlier reports of this 1000 enlisted men across all submarine classes, but possibly slightly higher for men in attack class as compared to those in either fleet type or Fleet during equal time segments. A gross estimate of the incidence of DA in the submarine service for FY71 was comparatively low, of the order of 25 per selected sociological, personality and background factors to propensity for DA in the submarine service. Though the mechanisms are unknown, there appears to be a non-chance correlation between Involving two drug abuse (DA) Samples(N=200 and series and to investigate the relationships of Submarine School output and incidence of DA Ballistic Missile billets. (Modified author

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

PURDUE UNIV LAFAYETTE IND

Similarity, Self-Esteem and Reactions to Aid in a Simulated Decision Making Task.

3

Nadler, Arie ; DESCRIPTIVE NOTE: Technical rept., REPT. NO. TR-12 CONTRACT: N00014-67-A-0226-0030 52P PROJ: NR-177-946

UNCLASSIFIED REPORT

*Attitudes(Psychology), *Behavior, *Test construction(Psychology), Computerized simulation, Analysis of variance, Personality tests, *Human relations, Reaction(Psychology), DESCRIPTORS:

Perception(Psychology)
IDENTIFIERS: *Self esteem, Unsolicited assistance
Personality similarity

3 3

> similarity between donor and recipient of resistance and the recipient's level of self-esteem on his reactions to being helped. A 2 x 2 x 2 factorial between subjects design was employed in which aid-no attitudinally similar or dissimilar to the subject. esteem-low self esteem recipients were the three experimental factors. The effect of these experimental variables on the recipients self-perceptions served as major focus for the present investigation. The experimental task consisted of a stock market computer simulation in which the aid, similar donor-dissimilar donor and high self outcomes were preprogrammed to create a state of financial need for the subjects. Subjects in the aid condition received an unsolicited financial The study explored the effects of the overall assistance from a fictitious pair-mate. This fictitious other was simulated to be either (Modified author abstract)

ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

BARUCH COLL NEW YORK AD- 767 383

Consequences of the Announcement to Close Naval Shipyards. Study 1. Relation of Personality Measures to Job Satisfaction and Cohesiveness Items. Study 2. Reports of Physical Ailments under Three Conditions of A Study of the Social Psychological Job Stress.

DESCRIPTIVE NOTE: Final rept., 21 A1P Zalkind, Sheldon S. SEP 73 41P Zalkind CONTRACT: N00014-67-A-0365-0001 PROJ: NR-171-806

UNCLASSIFIED REPORT

 Ξ IDENTIFIERS: HEALTH, *JOB SATISFACTION, CORRELATIONS, (*INDUSTRIAL PSYCHOLOGY, *STRESS(PSYCHOLOGY)), JOB ANALYSIS, INDUSTRIAL MEDICINE, PERSONALITY TESTS, (*SOCIAL PSYCHOLOGY, *SHIPYARDS), DESCRIPTORS:

DISPLACEMENT

3 definitions and taxonomies for stress, and some final In study two, contrary to expectations, the results Iwo small studies used data from civilian employees satisfaction and cohesiveness. For the yards, only the anomie measure showed some (low) consistency. showed more reports of ailments from the Norfolk of three naval shipyards: Brooklyn, New York, Portsmouth, New Hampshire, and Norfolk, Virginia. In study one, the relationships were slight of personality to job Brooklyn longitudinal subsamples. A discussion (no stress) group than from the Portsmouth or is also included concerning dilemmas about points on the data from the project. (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

NAVAL SUBMARINE MEDICAL RESEARCH LAB GROTON CONN

Factors Related to Drug Abuse in the Submarine Service. II. Personality Trait Patterns as Delineated by the Minnesota Multiphasic Personality Inventory.

3

DESCRIPTIVE NOTE: Medical research progress rept. no. Weybrew, Benjamin B. ; Noddin, FEB 73 17P

3

Ernest M.; REPT. NO. NSMRL-737 PROJ: MF51.524 TASK: MF51.524.002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 30 Aug 72, AD-759 724.

3 (*NARCOTICS, *ADDICTION), PATTERN RECOGNITION, FACTOR ANALYSIS, TEST CONSTRUCTION(PSYCHOLOGY), REHABILITATION, DESCRIPTORS: (*PERSONALITY TESTS, *SUBMARINE PERSONNEL), STATISTICAL DISTRIBUTIONS, SOCIAL PSYCHOLOGY, CIVILIAN IDENTIFIERS: MINNESOTA MULTIPHASIC PERSONALITY PERSONNEL

3 INVENTORY, *DRUG ABUSE, ENLISTED PERSONNEL

 $\widehat{\Xi}$ compared with a matched sample of 20 enlisted men without any DA history and with 2 similar civilian DA sample were compared to the civilian DA groups for peaks on depression (D), psychopathic deviate (Pd), psychasthenia (Pt) and on the validity The Minnesota multiphasic personality inventory subtest profiles for 20 enlisted submariner candidates who had admitted drug abuse (DA) were DA samples. The mean profiles for the Navy scale. (Modified author abstract)

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17

SEARCH CONTROL NO. ZOMOS

DDC REPORT BIBLIOGRAPHY

MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

3 The Nature of Objectivity with the Rasch Model.

Whitely, Susan E. ; Dawis, DESCRIPTIVE NOTE: Technical rept., 29P TR-3008 CAN Rene V

UNCLASSIFIED REPORT

N00014-68-A-0141-0003

NP-151-323

CONTRACT

33 DESCRIPTORS: (*PSYCHOLOGICAL TESTS, ACCURACY),
(*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION),
(*PERSONALITY, MEASUREMENT), PERSONALITY TESTS,
PROGABILITY, STATISTICAL PROCESSES, MATHEMATICAL MODELS,
APTITUDE TESTS, ANALYSIS OF VARIANCE
ADTITUDE: ABILITIES, *RASCH MODEL
(U)

3 trait theory and trait measurement has not been clear previously possible, the model has had little impact on test development. Population-invariant item and equivalency of any two item subsets are supposedly possible if the item pool has been calibrated by the analysis of the conditions under which the claims of assumptions and computations in the Rasch model to concluded that the real advantages of the Rasch model will not be apparent until the technology of from previous work. The current paper presents an objectivity will be substantiated, with special emphasis on the nature of equivalent forms. It is leads to a higher degree of objectivity in latent trait and ability measurement than has been Although it has been claimed that the Rasch model ability calibrations along with the statistical trait measurement becomes more sophisticated. encouraging, but the relation of underlying Rash model. Initial research has been (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

LOUISVILLE UNIV KY PERFORMANCE RESEARCH LAB

Studies of Performance Assessment and Enhancement.

3

DESCRIPTIVE NOTE: Annual progress rept. 1 Sep 70-31 May 72,

Morgan, Ben B. , Jr.; Repko 43P 72 John D. NON

REPT. NO. PR-72-22 CONTRACT: DAHC19-69-C-0009 PROJ: DA-2-T-014501-B-81-B 2-T-014501-B-81-B-00 TASK:

UNCLASSIFIED REPORT

See also AD-722 255. SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERFORMANCE(HUMAN), MEASUREMENT),
PSYCHOPHYSIOLDGY, PERSONALITY, THEORY,
DERFORMANCE(HUMAN) THEMIS PROJECT DENTIFIERS:

33

 $\widehat{\Xi}$ supporting laboratory research; methodological and theoretical formulations; and liaison activities. biomedical correlates; personality, social, and The report presents brief summaries of research activities under six major headings: studies of sustained performance; psychophysiological and subjective correlates; technical studies and

ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

STANFORD UNIV CALIF DEPT OF PSYCHOLOGY

Social and Personal Bases of Individuation.

3

Technical rept.,

Maslach, Christina; 72 40P Maslach ONR-TR-Z-08 N00014-67-A-0112-0041 DESCRIPTIVE NOTE: 72 REPT. NO. JU,

UNCLASSIFIED REPORT

PROJ: NR-171-814

CONTRACT:

3 DESCRIPTORS: (*PERSONALITY, *MOTIVATION), SOCIAL PSYCHOLOGY, IDENTIFICATION, PSYCHOLOGICAL TESTS

anticipated the possibility of positive rewards, they made many more attempts to individuate themselves models of individuation and also provide a conceptual link between the phenomena of conformity, deviancy, findings have important implications for theoretical were forthcoming. The pattern of individuating behavior was also affected by the subject's sex and than when they expected that negative consequences experiment which provided them with opportunities (both verbal and nonverbal) to either individuate or deindividuate themselves. When the subjects Male and female subjects participated in a group prior level of experienced uniqueness. These and personal identity. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER

Test Anxiety: Situationally Specific or General.

3

Technical memo., P Tobias, Sigmund ;Hed1, John CAI-TM-49 N00014-68-A-0494 199 DESCRIPTIVE NOTE: JUN 72 ٠٠٠ ، ١٦: REPT. NO. CONTRACT:

UNCLASSIFIED REPORT

PROJ: NR-154-280

3 DESCRIPTORS: (*ANXIETY, *PSYCHOLOGICAL TESTS),
PERSONALITY, FACTOR ANALYSIS, STRESS(PSYCHOLOGY)

3 fluctuations of evaluative stress than state anxiety, The paper reports two experiments whose purpose was and more closely related to general trait anxiety. to relate two bodies of research on anxiety: test nonevaluative situations, such as a game in Study I or an instructional setting in StudyII. The and trait-state anxiety. It was reasoned that state anxiety measures obtained in an evaluative testing condition should be more similar to test anxiety than state anxiety measures obtained in results of both studies failed to confirm this hypothesis. Test anxiety was less sensitive to (Author)

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18

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

EDGEWOOD ARSENAL MD AD- 740 644

A Survey of Intellectual and Personality est Correlates in US Army Volunteer Subjects. DESCRIPTIVE NOTE: Technical rept. May 70-Feb 71, APR 72 14P McCarroll, James E. ;Kysor, DA-1-W-062116-AD-19 1-W-062116-AD-1991 EA-TR-4647 REPT. NO. PROJ:

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*PERSONALITY TESTS, ARMY PERSONNEL), (*INTELLIGENCE TESTS, ARMY PERSONNEL), CORRELATION IDENTIFIERS: PERSONNEL SCREENING TESTS TECHNIQUES

The Minnesota Multiphasic Personality
Inventory (MMPI), California Personality
Inventory (CPI), Wechsler Adult
Intelligence Scale (WAIS), Number Facility
(NF) test, Embedded Figures Test (EFI), and
a portable Rod and Frame Test (RFI) were
given to US Army enlisted men to obtain norms and
intercorrelations of some of the tests. It was
determined that: the NF test is a valid
predictor of numerical ability; GT scores can be
used as good predictors of WAIS intelligence; and
the EFI is more useful than the RFI for
differentiating subjects into field dependenceindependence. (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY)- 740 556 5/10 12/2 MICHIGAN STATE UNIV EAST LANSING COMPUTER INST FOR SOCIAL SCIENCE RESEARCH

The Effects of Personality Traits on Experimental Games.

3

3

Katz, Marsha H. DESCRIPTIVE NOTE: Interim rept., REPT. NO. 72-1 CONTRACT: F44620-69-C-0114 PROJ: AF-7921

UNCLASSIFIED REPORT

TR-72-0298

MONITOR: AFOSR

SUPPLEMENTARY NOTE: Report on Cooperation/Conflict Research Group.

33 DESCRIPTORS: (*PERSONALITY, GAME THEORY), DECISION MAKING, PERSONALITY TESTS, EXPERIMENTAL DESIGN IDENTFIERS: COMPETITION

The third game used was the chicken game. It was expected that the two personality traits would interact in the chicken game such that only those who were high on trust and low on competition would cooperate. All others were predicted to defect. Competition predicted choice of move on the chicken game. The competition game was also a predictor of the choice of move on the chicken game. Sex differences were found to be significant in the moves following defection by the opponent. plays in the choice of move in experimental games. Two 'trivial' games were developed, one to test the trait of trust and the other to test competitiveness. The study reports on the effects that personality

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(Author)

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ZOMOS DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

FOUCATIONAL TESTING SERVICE PRINCETON N J AD- 737 696

Significance Test for a Partial Correlation Corrected for Attenuation.

 $\widehat{\Xi}$

Lord, Frederic M. ; DESCRIPTIVE NOTE: Technical rept., CONTRACT: N00014-69-C-0017 199 NAD PROJ:

NR-150-303

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, *CORRELATION TECHNIQUES), REGRESSION ANALYSIS, DISTRIBUTION FUNCTIONS, PERSONALITY TESTS, STATISTICAL TESTS, INTELLIGENCE TESTS DESCRIPTORS:

3

correlations because not even the sign of the partial circumvents this problem in those cases where it is enough to infer just the sign of the partial between between true scores can be inferred safely from the will sometimes have an overwhelming sampling error. A significance test is developed that largely Correction for attenuation is important for partial Methods for inferring the corrected partial are discussed. Unfortunately, the corrected partial partial between observed (fallible) scores. true scores. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J AD- 737 113

A Simple Confidence Testing Format.

3

DESCRIPTIVE NOTE: Final rept. Jul 70-Jul 71, Boldt, Robert F. ; 15P JUL

CONTRACT: F41609-70-C-0044 ETS-RB-71-42 REPT. NO.

TR-71-31 AFHRL PROJ: AF-1121 TASK: 112103 MONITOR:

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY TESTS, *TEST CONSTRUCTION(PSYCHOLOGY)), PROBABILITY, STATISTICAL ANALYSIS

*CONFIDENCE(PSYCHOLOGY) DENTIFIERS:

33

score of zero is assigned when complete uncertainty approximations to the scoring function is supplied. is indicated. Futhermore, the examinee can expect to do best if he reports his personal probability multiple-choice items. In addition to the usual indication of the correct alternative, the method quadratic scoring functions are found such that a requires that the examinee indicate his personal probability of the correctness of his response. functions for use in conjunction with standard functions are examined for suitability. Unique The paper presents the development of scoring Both linear and quadratic polynomial scoring accurately. A table of simple integer

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

CIVIL AEROMEDICAL INST OKLAHOMA CITY OKLA

Personality Assessment in Aviation: An Characteristics of the 16PF and MMPI, Analysis of the Item Ambiguity

3

Smith, Roger C. ; 71-35 9 MONITOR: FAA-AM

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY TESTS, STATISTICAL ANALYSIS), AVIATION PERSONNEL, SCALE, SELECTION (U) IDENTIFIERS: AMBIGUITY, PERSONNEL SCREENING TESTS (U) DESCRIPTORS.

screening procedures. Subjects completed either the an item elicits multiple interpretation) which may limit the utility of such devices when used in the problem of item ambiguity (the degree to which widely employed in the evaluation of personnel in aviation settings. The present study investigated relationship between ambiguity and sex of the respondent, the individual factor scales, and the scores of subjects on the scales was considered. The implications of the findings for item construction and use of the test in various IGPF or the MMPI while concurrently rating each ambiguity for each item was determined and the Devices such as the 16PF and MMPI have been item on a five-point ambiguity scale. The applications were discussed. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N AD- 734 032

Confidence Testing as a Diagnostic Aid in An Evaluation of the Feasibility of Technical Training.

3

Echternacht, Gary J.; DESCRIPTIVE NOTE: Final rept. Jul 70-Jul 71, JUL 71 139P Echternacht,Gary J. Sellman,Wayne S. ;Boldt,Robert F. ;Young, Joseph D. ;

CONTRACT: F41609-70-C-0044 PROJ: AF-1121 TASK: 112103

AFHRL MONITOR:

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*PSYCHOMETRICS, RELIABILITY), (*AIR FORCE TRAINING, PSYCHOMETRICS), FEASIBILITY STUDIES, MAINTENANCE PERSONNEL, PERSONALITY, PROBABILITY IDENTIFIERS: *CONFIDENCE TESTING, EVALUATION

3 criteria for feasibility included end of block examination scores, number of student remediational sessions, and both student and instructor attitudes. more time consuming, end of block examination scores In addition, the relationship of various personality variables to confidence test scores was examined for both types of confidence testing. The major finding was that while scoring was somewhat feasibility and the cost-effectiveness of using confidence testing as a diagnostic aid in technical training programs. Two types of confidence testing, Pick-One and Distribute 100 Points, were developed for comparison to conventional multiplerequired declined slightly when either confidence choice testing. The study was carried out in two improved slightly and the number of remediations investigation produced essentially null results. The report describes a study to determine the technical training courses, Aerospace Ground Equipment Repairman (AGE) and Jet Engine Mechanic (JEM), currently being taught at testing method was employed. Other areas of Chanute Air Force Base, Illinois, The (Author)

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N AD- 734 031

Use of Confidence Testing in Objective Tests,

3

Echternacht, Gary J. ; ETS-RB-71-41 F41609-70-C-0044 AE-1121 TASK: 112103 CONTRACT:

UNCLASSIFIED REPORT

MONITOR: AFHRL

33 (*PSYCHOMETRICS, RELIABILITY), PERSONALITY, *CONFIDENCE TESTING DESCRIPTORS: PROBABILITY IDENTIFIERS:

3 test items. The paper traces the development of the procedure from Hevner's beginning method up to the various methods in use today. The term confidence testing is applied to both probabilistic testing and confidence weighting procedures. Various procedures are presented, and their relationship with over the past forty years as a method for increasing the amount of information available from objective The development of confidence testing as a form of objective testing was traced from Hevner's initial Confidence testing has been used in varying forms personality factors is discussed. (Author) format to that developed in recent years.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY NAVAL PERSONNEL RESEARCH AND DEVELOPMENT LAB WASHINGTON D

. The Navy Advisor Profile Report,

3

Yellen, Ted M. I. McGanka, John F.; REPT. NO. WRR-72-5 PRGJ: PF39.521.001.02.04 OCT 71

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*NAVAL PERSONNEL, *VIETNAM), PERSONALITY TESTS, SELECTION, LEADERSHIP, MILITARY PUBLICATIONS IDENTIFIERS: *ADVISORY PERSONNEL, PERSONNEL SCREENING

incomponating the distinguishing characteristics ar their operational definitions. The form and manual were field tested and an analysis of the data indicated that evaluators were able to use the instrument in discriminating between effective and ineffective individuals as potential advisors. The Navy Advisor Profile Report (NAVPERS 1300/8 instrument which would be used to assess an individual's potential and suitability to perform advisory functions in the Republic of Vietnam. Specific personality characteristics possessed by effective advisors were identified and defined in instrument and instruction manual were developed terms of actual experiences encountered by Naval advisors in Vietnam. An experimental evaluation he purpose of the research was to develop an Report (NP 15164) were put into fleet-wide Instruction Manual Navy Advisor Profile operational use August 1971. (Author) (7/71) and BUPERS 1300-24) and the

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PAGE

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J

3 User's Handbook for Confidence Testing as Diagnostic Aid in Technical Training,

Robert F.; Sellman, Wayne S.; CONTRACT: F41609-70-C-0044
PROJ. AF-1121

112103 TASK:

TR-71-34 MONITOR: AFHRL

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMETRICS, *HANDBOOKS), TRAINING IDENTIFIERS: *CONFIDENCE TESTING

The handbook is intended to supply both testing specialists and general users of tests with a set of instructions for implementing a program of confidence testing in technical training situations, provided identification of promising areas of application, the scores, uses of confidence testing, and instructions for those administering confidence tests where either hand or machine scoring is used. (Author) methods, techniques for evaluating confidence information, and administrative considereations. It contains a discussion of Pick-One and Distribute 100 Points confidence formats, other confidence procedures, and the relative merits of information concerning such factors as the

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER AD- 728 984

The Development of a Measure of State Epistemic Curiosity.

3

Leherissey, Barbara L. ; DESCRIPTIVE NOTE: Technical memo.,

UNCLASSIFIED REPORT

PROJ: NR-154-280

CONSTRUCTION(PSYCHOLOGY)), (*LEARNING, PERSONALITY), MOTIVATION, EDUCATION
IDENTIFIERS: *CURIOSITY(PSYCHOLOGY) (*PERSONALITY TESTS, TEST DESCRIPTORS:

33

of state epistemic curiosity, the State Curiosity Scale (SCS), was described. Reliability and validity data was collected in two empirical studies with female undergraduate students. Alpha reliability coefficients of .87 in Study I and .89 in Study II were-found. Concurrent validity findings included a significant positive correlation between the SCS and the Ontario Test of Intrinsic Motivation (OIIM), a trait measure of specific curiosity were found to have higher levels of state curiosity than Ss low in trait curiosity. State anxiety, and a significant positive correlation between state epistemic curisoity and performance in The development of a theoretically-derived measure Indirect evidence of the construct validity of the Correlation between state epistemic curiosity and SCS were the findings of a significant negative a Computer-Assisted Instruction (CAI)

3

learning task. (Author)

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY

Personality and Situational Determinants of Leader Behavior.

3

CONTRACT: N00014-67-A-0103-0013, N00014-67-A-0103-Fiedler, Fred E. DESCRIPTIVE NOTE: Technical rept., PROJ: ARPA Order-454, NR-177-472 33P TR-71-18 REPT. NO.

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*LEADERSHIP; *PERSONALITY), BEHAVIOR, PSYCHOMETRICS

Contingency Model. The variables, the Least Preferred Coworker (LPC) score and the 'favorableness' of the leadership situation, interact we should avoid defining leadership style on the basis of leader behaviors, and that the prediction of leader behavior must be based on the joint effects of personality and situational factors. (Author) (1 behavior depends, in large part, on the interaction of LPC and situational favorableness indicates that in a highly consistent manner in affecting these The paper examines the relationship between such behaviors as the leader's consideration and leader behaviors. The evidence that leader structuring and two key variables of the

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

AD- 725 475 5/9
MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

Interpreting Standardized Test Scores.

3

Perry, Dallis DESCRIPTIVE NOTE: Technical rept., 50P TR-8000 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, *PSYCHOLOGICAL TESTS), ACCURACY, STATISTICAL ANALYSIS
IDENTIFIERS: EDUCATIONAL PSYCHOLOGY

33

Principles of test administration, test validity, administration, instruction, and guidance are presented. Types of norm-referenced score

3 and accuracy of measurement underlying interpretation of standardized test scores in educational predicted scores, and expectancies, are described; transformations, including percentiles, standard attention is given to multi-scores tests and the scores, and grade equivalents, and of criterion and their applications are illustrated. Special representation of their scores as profiles and referenced scores, including content scales, similarity indexes. (Author)

PAGE

25

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ZOMOZ SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

I- 723 314 5/10
AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Development of Psychometric Measures of Student Attitudes Toward Technical Training: Reliability and Factorial Validity. DESCRIPTIVE NOTE: Rept. for Jan-May 70, NOV 70 61P Federico,Pat-Anthony; NOV 70 61P F REPT. NO. AFHRL-TR-70-37 PROJ: AF-1121 112103 TASK:

UNCLASSIFIED REPORT

DESCRIPTORS: (*ATTITUDES(PSYCHOLOGY), *PSYCHOLOGICAL TESTS), (*AIR FORCE TRAINING, ATTITUDES(PSYCHOLOGY)), STUDENTS, RELIABILITY, FACTOR ANALYSIS

3 analyses and multiple discriminant function analyses task which undertakes to develop a new student critique form for Air Training Command (ATC).
Specifically, it deals with the identification of valid and reliable psychometric measures of student These were administered in a counterbalanced order to samples of officers, NCO, and airmen enrolled in an ATC technical school. Multiple-factor Iwo critique form prototypes were developed using a Likert-type and a Guttman-type configuration. analyses of the two forms, the Likert configuration was recommended for further development. Eight between rater groups, it was also recommended that were performed for the scored responses of the attitudes toward Air Force technical training. Likert factors, or unidimensional scales, were management, specialty training, training impressions, training facilities, repetitious instruction, intelligible media, and textbook utility. Because of demonstrated differences subjects to these critique forms. Test-retest investigation is the Phase I effort of a reliability and factorial and discriminative validities were established for each of the group-specific forms be developed. (Author) prototypes. On the basis of the statistical defined: instructor competence, training

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

HAWAII UNIV HONDLULU DEPT OF PSYCHOLOGY 6/5 AD- 720 350

Learning and Personality, and Language (Symbolic) Behavior Therapy,

3

Staats, Arthur W. ; REPT. NO. TR-12 CONTRACT: N00014-67-A-0387-0007 PROJ: NR-154-290

 $\widehat{\Xi}$

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Language, Personality, Social, and Cross-Cultural Study and Measurement of the Human A-R-D (Motivational) System. DESCRIPTORS: (*PERSONALITY, PERCEPTION(PSYCHOLOGY)), (*WORD ASSOCIATION, PERSONALITY), (*PSYCHIATRY, *LEARNING), EMOTIONS, LANGUAGE, THERAPY IDENTIFIERS: *PSYCHOLINGUISTICS

33

me thods personality repertoires and methods of changing such outlined. This provides a theoretical framework for necessary in behavioral theory; that the individual learns enduring personality repertoires that personality repertoires can be modified by language psychotherapy theory with learning theory, with the behavior therapy must begin to include analyses of repertoires. Some of the language repertoires are underlying constituents of personality constructs means, according to learning principles; and that broadening behavior therapy theory, research, and practice. The present approach thus aims at determine his general behavior; that language is like intelligence, self-concept, and so on; that intermeshed personality repertoires that are the described as are ways by which problems can be treated through the language behavior therapy considering certain traditional psychotherapy practices in behavioral terms as well as for It is suggested that a personality level is composed of several separately learned but unification of traditional personality and latter providing the basic principles.

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(Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 717 400 5/10 9/2
PITTSBURGH UNIV PA LEARNING RESEARCH AND DEVELOPMENT CENTER

Methodological Considerations in On-Line Contingent Research and Implications for Learning.

3

DESCRIPTIVE NOTE: Technical rept.,
OCT 70 67P Whittington, Marna Cupp;
CONTRACT: N00014-67-A-0402-0006
PROJ: NR-154-262

UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, EXPERIMENTAL DESIGN),
(*TEACHING METHODS, ADAPTIVE SYSTEMS), (*PSYCHOLOGICAL
TESTS. COMPUTER PROGRAMMING), PERFORMANCE (HUMAN),
TRANSFER OF TRAINING, STUDENTS, DECISION MAKING,
LABORATORIES, TEST CONSTRUCTION (PSYCHOLOGY)
IDENTIFIERS: STIMULUS (PSYCHOPHYSIOLOGY), COMPUTER
AIDED INSTRUCTION, DISCRIMINATION LEARNING,
(U)

The purpose of the study was to investigate methods for conducting on-line contingent research in the psychological laboratory and to systematically explore the implications of contingent research for task management, psychological measurement, and research design. (Author) (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 716 628 5/10 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO

Personality Dimensions Derived from Multiple Instruments.

3

DESCRIPTIVE NOTE: Doctoral thesis, OCT 70 115P Thaler, Victor Hugo; REPT. NO. AMRL-TR-67-108 PROJ: AF-7222

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY, MEASUREMENT), (*TEST CONSTRUCTION(PSYCHOLOGY), EXPERIMENTAL DATA), STUDENTS, MALES, UNIVERSITIES, QUESTIONNAIRES, ANALYSIS OF VARIANCE, FACTOR ANALYSIS, STATISTICAL PROCESSES, PSYCHOLOGICAL TESTS, EFFECTIVENESS, THESES (U)

scores. These, in turn, were again factored, using an orthogonal rotation, resulting in 20 grand factors measures, which were then transformed into 50 factor batteries has been open to question in a variety of studies. Often, it seems as though the addition of more or different test information does not improve instrument factors that reflect mainly the form and administered to 88 male college students. The tests included the 16 P.F., WAIS, TAT, HIT, there are meaningful interrelationships between the current study has used a variant of standard factor The current use of clinical psychological tests in many variables in a test battery, then it would appear that factor analysis would be a most useful unsatisfactory in revealing personality dimensions across tests. Rather, they have each produced technique in revealing them. Unfortunately, factor analysis of groups of tests have often been character of the original component measured. The instrument factors and make evident relationships the quality of the psychologist's evaluation. If analytic methods that eliminate the emergence of Orthogonal factor analyses were done on all MMPI, and a personal history questionnaire. between tests. A group of six measures was of personality. (Author)

26

PAGE

PAGE

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ZOMOS DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

NAVY EXPERIMENTAL DIVING UNIT WASHINGTON D C 5/10 AD- 716 313

Betting Preferences and Personality Characteristics of Navy Divers.

3

Biersner, Robert J. ; Cameron, DESCRIPTIVE NOTE: Research rept., 10

Bernard J.; REPT. NO. NEDU-RR-17-70 PROJ: M4306

M4306.01

Availability: Pub. in Aerospace Medicine, v41 n11 UNCLASSIFIED REPORT p1289-1291 Nov 70.

3 3 PERFORMANCE(HUMAN)), (*DIVING, ATTITUDES(PSYCHOLOGY)), BEHAVIOR, STATISTICAL ANALYSIS, PROBABILITY, CLASSIFICATION, MANPOWER DESCRIPTORS: (*NAVAL PERSONNEL, DIVING), (*HAZARDS, ATTITUDES(PSYCHOLOGY)), (*PERSONALITY, IDENTIFIERS: MINNESOTA MULTIPHASIC PERSONALITY INVENTORY, BETTING BEHAVIOR, GAMBLING, *DIVERS, EDWARDS PERSONAL PREFERENCE SCHEDULE, ENLISTED PERSONNEL

3 with studies of parachutists and jet pilots indicated showed that divers (a) scored essentially the same as the control group on the MMPI, (b) scored significantly higher than control subjects on that divers were similar to parachutists in betting preferences, but showed personality characteristics which were significantly different from both the aggression and change scales, and significantly lower on the affiliation, nurturance, and comparable control group of nondiving enlisted men were given the Minnesota multiphasic personality inventory (MMPI) and the Edwards personal preference schedule (EPPS) in order to study personality differences between the two groups. In addition, both groups selected bets from among a series of hypothetical gambles in order to study differences in attitudes towards risk. The results money was involved. A comparison of these results (.50) those bets in which the greater amount of probability of winning or losing was the same intraception scales of the EPPS, and (c) consistently selected from bets in which the Twenty professional U.S. Navy divers and a parachutists and jet pilots. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

)- 714 230 WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY AD- 714 230

Personality, Motivational Systems, and Behavior of High and Low LPC Persons.

3

CONTRACT: N00014-67-A-0103-0013, DA-49-193-MD-2060 PROJ: NR-177 472, ARPA Order-454 Fiedler, Fred E. ; DESCRIPTIVE NOTE: Technical rept., 43P TR-70-12 REPT. NO.

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PERSONALITY, MEASUREMENT), (*LEADERSHIP, SCIENTIFIC RESEARCH), THEORY, INTERACTIONS, PSYCHOLOGICAL TESTS, MOTIVATION, BEHAVIOR, MATHEMATICAL DESCRIPTORS:

3 IDENTIFIERS: LEAST PREFERRED COMORKER SCALE, OBJECTIVES

3 least preferred coworker (LPC) score which suggests that the score reflects a hierarchy of goals. High LPC persons have as their primary goal the establishment and maintenance of interpersonal relations and as a secondary goal the attainment of prominence and self-enhancement. The low LPC leadership training, and personality theory are discussed, as is the integration of the contingency model results with findings obtained in other person is seen as having as his primary goal the achievement of tasks and material relations. The supporting data for the prediction of behavior, The paper presents a new interpretation of the implications of this interpretation and the leadership research programs. (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 712 409 5/10 SHUFORD-MASSENGILL CORP LEXINGTON MASS DECISION-THEORETIC PSYCHOMETRICS.

3

DESCRIPTIVE NOTE: Final technical rept. 1 Nov 68-30
Jun 70,
Jul 70,
Jul 70,
Shuford, Emir H. , Jr;
REPT. NO. SMC-R-23
CONTRACT: F44620-69-C-0068, ARPA Order-833
PROJ: AF-9719
MONITOR: AFOSR 70-2291TR

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, *DECISION THEORY),
DECISION MAKING, CONFIDENCE LIMITS, STATISTICAL
DISTRIBUTIONS, MATHEMATICAL PREDICTION,
PERFORMANCE(HUMAN), RELIABILITY
IDENTIFIERS: CONFIDENCE TESTING (U)

The major items of work performed under the contract are-reviewed. Four recommendations are stated and justified: The notion and ideas of confidence testing should not be used in conjunction with admissible probability measurement because they interfere with the proper working of this new procedure; the truncated logarithmic scoring system, because of its unique properties, should be adopted as the standard measure of achievement and performance: operational use of admissible probability measurement should be implemented at a school only after thorough indoctrination and training of instructors; in every application of admissible probability measurement in an instructional setting, each student should continually assess the quality of his thinking process by keeping a running record showing if he tends either to overvalue or undervalue the validity of his reasoning as reflected in his score settings. (Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 711 025 5/10 STANFORD UNIV CALIF DEPT OF PSYCHOLOGY A STUDY OF PERSONALITY CORRELATES OF JUDGMENT BEHAVIOR.

3

DESCRIPTIVE NOTE: Technical rept.,
AUG 54 27P Winder,C. L.; Wurtz,
Kenneth R.;

REPT. NO. 225(01) PROJ: NR-150-087

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Previously announced as PB-117

DESCRIPTORS: (*DECISION MAKING, PERFORMANCE(HUMAN)), (*PERSONALITY, ANALYSIS OF VARIANCE), CORRELATION TECHNIQUES, PROBLEM SOLVING, PERFORMANCE(HUMAN), PSYCHOPHYSICS, STATISTICAL PROCESSES, BEHAVIOR IDENTIFIERS: *JUDGMENT, THOUGHT,

3 3

DENTITIEKS: *JODGMENT, INDUGHT, CONFIDENCE(PSYCHOLOGY) The fundamental viewpoint which furnishes the context for the study is that the functioning adult human organism should be conceptualized in terms which provide for an ego or central analyzer—integrator function. Given such a point of view there will be a high degree of selectivity in responses to the vast array of discriminable situations in which the organism finds itself. The natural approach to any given problem will vary in degree from individual to individual and there will be a significant degree of intraindividual consistency in any given function from task to task or situation to situation. (Author)

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UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 710 023 5/10 5/9 EDUCATIONAL TESTING SERVICE PRINCETON N J

THE DEVELOPMENT OF PERSONALITY TESTS FOR NAVAL OFFICER SELECTION.

 Ξ

DESCRIPTIVE NOTE: Final rept. 1 Dec 49-29 Feb 52, MAR 52 SP Ricciuti, Henry N. ; French , John W. ;

John W.; CONTRACT: N9onr-982(01) PROJ: NR-151-030

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-710 018.

DESCRIPTORS: (*PERSONALITY TESTS, *OFFICER PERSONNEL), (*NAVAL PERSONNEL, SELECTION), LEADERSHIP, APTITUDE TESTS, WORD ASSOCIATION, ATTITUDES(PSYCHOLOGY) (U) IDENTIFIERS: *NAVAL ACADEMY (U)

The study was directed toward the development of personality tests to supplement the more scholastically oriented aptitude tests used in the selection of Naval Officers. The investigation was divided into two major phases. The first phase was concerned with an analysis of midshipmen ratings on 'aptitude-for-service,' at the U. S. Naval Academy. The second phase of the study involved the development and validation of several personality tests intended to predict these ratings. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 710 018 5/10 5/9 EDUCATIONAL TESTING SERVICE PRINCETON N J

DEVELOPMENT OF PERSONALITY TESTS FOR NAVAL OFFICER SELECTION. I. ANALYSIS OF U. S. NAVAL ACADEMY CRITERION OF APTITUDE FOR SERVICE.

3

DESCRIPTIVE NOTE: Technical rept.,
MAR 51 32P Ricciuti, Henry N. ; French,

John W.;
REPT. NO. RB-51-7, TR-1
CONTRACT: N9onr-982(01)
PROJ: NR-151-030

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-710 023.

DESCRIPTORS: (*APTITUDE TESTS, *OFFICER PERSONNEL), (*NAVAL PERSONNEL, SELECTION), PERSONALITY TESTS, LEADERSHIP
IDENTIFIERS: *NAVAL ACADEMY

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The objective of the survey is the development of personality measures to supplement the more scholastically oriented aptitude tests used in the selection of Naval officers. The first year's work, recently completed, was concerned with a study of associates' and officers; ratings of U. S. Naval Academy midshipmen on 'aptitude for service,' or leadership potential.

Intercorrelations were computed among aptitude for service ratings for three summer cruises and two accademic periods, standings in academic courses, and the class of 1951. (Author)

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

SHUFORD-MASSENGILL CORP LEXINGTON MASS

A NEW METHOD FOR PREDICTING PERFORMANCE,

3

Shuford, Emir H. , Jr.; Gibson, Duncan L. : REPT. NO. SMC-R-18 CONTRACT: F44620-69-C-0068, ARPA Order-833 PROJ: AF-920F-9719 MONITOR: AFOSR 69-1329TR 16P MAY 69

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*PERFORMANCE(HUMAN), PREDICTIONS), ATTITUDES(PSYCHOLOGY) IDENTIFIERS: CONFIDENCE(PSYCHOLOGY)

shooting tasks. Data indicate that a confidence statement is a better predictor of future performance definitive and do not have the realism and relevance of field studies with military personnel, analysis of the data indicates the possibility of considerable gain from the introduction of confidence measurement into performance testing programs. (Author) than is test performance itself. Further, a confidence statement is a better predictor of current test performance than is a success-failure prediction. Although these results are by no means A small-scale pilot study was conducted by having three subjects give confidence statements with respect to the successful performance of tanget

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

OREGON UNIV EUGENE AD- 706 753

THE SELF-OTHER ORIENTATIONS OF THE MARGINAL

3

Ziller, Robert C. ; Stark, DESCRIPTIVE NOTE: Technical rept., NOV 69 26P Ziller, Robi Bobby J.; Pruden, Henry O.; REPT. NO. TR-2 CONTRACT: N00014-67-A-0446-0003

PROJ: NR-170-720

UNCLASSIFIED REPORT

Report on Interpersonal Conflict SUPPLEMENTARY NOTE: and Group Theory.

3 DESCRIPTORS: (*PERSONALITY, *DECISION MAKING), (*ATTITUDES(PSYCHOLOGY), *GROUP DYNAMICS), PSYCHOLOGICAL TESTS, PERFORMANCE(HUMAN), SOCIAL COMMUNICATION, STATISTICAL PROCESSES, ANALYSIS OF VARIANCE, DESCRIPTORS: PERCEPT ION

3 IDENTIFIERS: INCOMPATIBLE GROUPS, INTERPERSONAL RELATIONS

contrast to less marginal men tended to support about equally two opposing statements on a given issue. The marginal person was shown to seek a neutral position under conditions of conflict. measure of marginality is presented and validated in a series of studies. First line supervisors as well as salesmen (examples of occupational roles in which marginality may be functional) were scored on the measure of marginality. The marginal in The marginal man is described as the individual who finds himself within a field of forces of two opposing groups. A non-verbal phenomenological

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(Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

SHUFORD-MASSENGILL CORP LEXINGTON MASS AU- 703 726

 $\widehat{\Xi}$ THE USE OF CONFIDENCE TESTING IN THE ACADEMIC INSTRUCTOR COURSE,

Gardner, Willie C. , Jr; 70-0143TR F44620-69-C-0068 SMC-R-20 PROJ: AF-9719 MONITOR: AFOSR CONTRACT: FEB

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Conference of the Military Testing Association (11th) held at the Statler Hilton Hotel, hosted by Coast Guard Training Center, Governors Island, N. Y. on 15-19 Sep 69. Sponsored in part by Advanced Projects Research Agency.

3 3 DESCRIPTORS: (*INSTRUCTORS, AIR FORCE TRAINING), (*PROGRAMMED INSTRUCTION, TEST METHODS), TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY, MANAGEMENT PLANNING AND CONTROL, REACTION(PSYCHOLOGY), PERFORMANCE HUMAN), STATISTICAL ANALYSIS IDENTIFIERS: CONFIDENCE TESTING, CURRICULUM CONSTRUCTION

such testing techniques can yield such information and serve as a useful tool in predicting a student's valid confidence testing techniques can provide a more accurate assessment of the students' knowledge of the subject matter and yield more useful information for the faculty than standard choice testing. The broad hypothesis of the study is that The overall problem in the study is to determine if success in course. (Author)

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AIR TRAINING COMMAND RANDOLPH AFB TEX DCS/TECHNICAL TRAINING

USAF INSTRUCTORS JOURNAL. VOLUME VII, NUMBER 3. WINTER 1969-70.

3

Superintendent of Documents, GPD, Washington, D. C. 20402. \$0.40, \$1.50/year domestic, \$2.00/year Availability: Paper copy available from UNCLASSIFIED REPORT foreign. DESCRIPTORS: (*AIR FORCE TRAINING, TEACHING METHODS), REPORTS, INSTRUCTORS, TEST CONSTRUCTION(PSYCHOLOGY), MOTIVATION, TELEVISION DISPLAY SYSTEMS, STANDARDS, SURVIVAL(PERSONNEL), PERSONNEL MANAGEMENT, ENDURANCE(PHYSIOLOGY)
IDENTIFIERS: MULTIPLE CHOICE TESTS, PROMOTIONS, CONFIDENCE TESTING

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> Weighted airman promotion system; Multiple-choice Measurement of criterion and enabling objectives; test item improvement; The instructor's posture; evaluation of training; Using TV imaginatively; student participation; Mission-possible; Field Checkrides, checkrides, checkrides; Training survival instructors; Teach them to be 'Test Wise'; The wagering-type objective test; Contents: Confidence testing; Achieving Classroom to combat.

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PAGE

ZOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

MANITOBA UNIV WINNIPEG DEPT OF PSYCHOLOGY AD- 700 217

RELATIONSHIP BETWEEN PERCEPTUAL DEPRIVATION TOLERANCE AND ADEQUACY OF DEFENSES AS MEASURED BY THE RORSCHACH,

Wright, Nancy A. ; Zubek 36 John P. :

Availability: Pub. in Jnl. of Abnormal Psychology, v74 n5 p615-617, 1969. No copies UNCLASSIFIED REPORT furnished. ESCRIPTORS: (*SENSORY DEPRIVATION, PERFORMANCE(HUMAN)), PROJECTIVE TECHNIQUES, REACTION(PSYCHOLOGY), VISION, HEARING, WHITE NOISE, PERSONALITY, PSYCHOPHYSICS, 3 TOLERANCES(PHYSIOLOGY), CORRELATION TECHNIQUES, STUDENTS, CANADA DENTIFIERS: PERCEPTUAL DEPRIVATION, RORSCHACH DESCRIPTORS:

administered, preexperimentally, to subjects who successfully andured 1 wk. of perceptual deprivation and to subjects, the quitters, who were unable to do so. An index of control based on the effectiveness of defense in controlling defense demand was derived for each. The results revealed that the group with successful subjects whereas the group with a low-control index consisted largely of isolation quitters. It was concluded that the index of control, derived from the Rorschach, may serve as an excellent predictor of isolation tolerance. a high-control index was composed largely of A standardization of the Rorschach test was

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVAL MEDICAL RESEARCH INST BETHESDA MD AD- 697 515

PERSONALITY FACTORS RELATED TO RESPONSE TO SOCIAL ISOLATION AND CONFINEMENT.

3

Irwin ;Wheeler,Ladd ;Kushner,Estelle N. ; PROJ: MF022.01.03, MR006.05-0001
TASK: MF022.01.03-1002

Availability: Pub. in Jul. of Consulting and Clinical Psychology, v33 n4 p411-419 1969. UNCLASSIFIED REPORT

3 3 (*STRESS(PSYCHOLOGY), SCIENTIFIC RESEARCH), CONFINED ENVIRONMENTS, REACTION(PSYCHOLOGY), PERFORMANCE(HUMAN), BEHAVIOR, ENDURANCE(PHYSIOLOGY), PROJECTIVE TECHNIQUES, TEST METHODS, TRANSFORMATIONS, ADJUSTMENT (PSYCHOLOGY)
IDENTIFIERS: DYADS, ISOLATION, PRIVACY (*PERSONALITY, FACTOR ANALYSIS), DESCRIPTORS:

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or predictive of endurance and adjustment to social isolation, and personality and/or perceptual changes occurring under varying conditions of social isolation. Pairs of men were confined for 8 days kind and a minimal work schedule. Multiple conditions of isolation were effected by a factorial combination of mission-length expectation, The study examines personality factors relating to in small rooms without recreational materials of stimulation, and privacy.

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(Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

- 695 849 5/9 5/10 SHUFORD-MASSENGILL CORP LEXINGTON MASS

CONFIDENCE TESTING: A NEW TOOL FOR MEASUREMENT,

Shuford, Emir H. , Jr; REPT. NO. SMC-R-19 CONTRACT: F44620-69-C-0068 SMC-R-19

PROJ: AF-9719 MONITOR: AFOSR 69-2348TR

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Conference of the Military Testing Association (11th).
Statler Hilton Hotel, hosted by the U. S. Coast Guard Training Center, Governors Island, N.
Y., 15-19 Sep 69. DESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY), DECISION THEORY), DECISION MAKING, PERFORMANCE(HUMAN), PELIABILITY, PROBLEM SOLVING, TEACHING METHODS, MOTIVATION, PROBABILITY, EDUCATION (U) IDENTIFIERS: CONFIDENCE TESTING (U)

3 framework which allows better understanding of choice testing and also the deriving of a scoring system and procedures which make possible the direct measurement of the confidence that a student holds in the testing is rated on yielding precise measurement of student knowledge and skill. Graphical procedures Mathematical decision theory has provided a logical are used to contrast choice and confidence testing. examinations and performance tests, confidence occurrence of an event. Used with written

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

- 695 451 5/10 JOHNS HOPKINS UNIV BALTIMORE MD DEPT OF STATISTICS

ON BOUNDS FOR THE AVERAGE CORRELATION BETWEEN SUBTEST SCORES IN IPSATIVELY SCORED TESTS.

3

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Gleser, Leon Hay DESCRIPTIVE NOTE: Technical rept., 15P MAY 69

CONTRACT: Nonr-4010(09) PROJ: NR-042-232

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES), ANALYSIS OF VARIANCE, INEQUALITIES IDENTIFIERS: IPSATIVE MEASURES DESCRIPTORS:

33

extended to tests where wieghted ipsative scoring is subtests. Let the scores on the various subtests be denoted by X1, X2,..., Xn. The test is scored ipsatively if an individual's total score on coefficient and proves them. Results obtained are the test is always equal to a given constant c; X1+X2+...Xn = c for each individual. The paper gives bounds for the mean correlation Let a given psychometric test consist of n employed.

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

NAVAL MEDICAL RESEARCH INST BETHESDA MD

AD- 694 222

PERSON-PERCEPTION AND SELF-DISCLOSURE: MOTIVATIONAL MECHANISMS IN INTERPERSONAL PROCESSES. DESCRIPTIVE NOTE: Medical research interim rept., 69 18P Taylor, Dalmas A.;

Oberlander, Leonard; PROJ: MF12.524.003-1007D

MONITOR: NAVMED MF12.524.003-1007D-3

UNCLASSIFIED REPORT Availability: Pub. in Jnl. of Experimental Research in Personality, v4 n1 p14-28 1969. DESCRIPTORS: (*PERCEPTION(PSYCHOLOGY), BEHAVIOR),
(*PERSONALITY, PERFORMANCE(HUMAN), TEST METHODS,
PERFORMANCE(HUMAN), REACTION(PSYCHOLOGY), ANALYSIS OF
VARIANCE, STATISTICAL PROCESSES, PATTERN
RECOGNITION
IDENTIFIERS: INTERPERSONAL PROCESSES,

STIMULI(PSYCHOPHYSIOLOGY) (U)

Three studies utilizing different approaches examined the relationship between self-disclosure and underlying perceptual-motivational mechanisms as they pertain to 'people-oriented' perception. The data fit into a conceptual model which bridges stimulas characteristics with sensation and cognition.

Although stimulus characteristics differed in each experiment, requiring Ss to make different perceptual responses, the results were consistent with constant personality dimensions. (U)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 688 817 5/10 George Washington Univ Alexandria va Human Resdurces Research Office MEASURES OF REACTION TO THREAT OF PHYSICAL HARM AS PREDICTORS OF PERFORMANCE IN MILITARY AVIATION TRAINING,

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MAY 69 20P Boyles, Wiley R.; REPT. NO. HUMRRO professional paper-15-69 CONTRACT: DAHC19-69-C-0018 PROJ: DA-2-J-062107-A-744

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at Southeastern Psychological Association, New Orleans, La., Feb 69, HUMRRO Exploratory Study-70.

DESCRIPTORS: (*PERFORMANCE(HUMAN), AIR FORCE TRAINING), (*STRESS(PSYCHOLOGY), TEST CONSTRUCTION(PSYCHOLOGY)), (*AVIATION PERSONNEL, ATTITUDES(PSYCHOLOGY)), PREDICTIONS, REACTION(PSYCHOLOGY), THREAT EVALUATION, PERFORMANCE(HUMAN), QUESTIONNAIRES, STATISTICAL ANALYSIS, BACKGROUND, ATTITUDES(PSYCHOLOGY), RELIABILITY (U)

Data from subjective reports, objective performance measures, and physiological studies indicate that flight training per se places a great deal of stress on the trainee. In military flight training additional stresses are involved that may markedly increase the importance of reaction to threat of physical harm. The paper reports effort to develop measures of reaction to physical harm threat and measures of change in confidence in ability to cope with that threat for use in the secondary selection process in U.S. Army aviation. (Author)

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34

PAGE

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NEUCHATEL UNIV (SWITZERLAND) INSTITUT DE PSYCHOLOGIE AD- 686 872

Ξ EVALUATION DE LA PERSONNALITE ET SITUTATION DE SELECTION (Personality Evaluation and the Selection Situation),

Gendre, Francis 103P 99

Availability: Pub. in Bulletin du C. E. R. P., v15, n3-4 p259-361 1966. No copies furnished. SUPPLEMENTARY NOTE: Text in French. UNCLASSIFIED REPORT

33 DESCRIPTORS: (*PERSONALITY, MEASUREMENT), PERSONALITY TESTS, CLASSIFICATION, STATISTICAL PROCESSES, TEST METHODS, QUESTIONNAIRES, ANALYSIS, SWITZERLAND IDENTIFIERS: BIAS, CONCEPTS, EVALUATION DESCRIPTORS:

An effort was made to evaluate the usefulness of the personality concepts of bias, acquiescence, social desirability, and cheating. The document gives a statistical presentation of the results.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

7- 686 011 5/10 5/9 HULL UNIV (ENGLAND) DEPT OF PSYCHOLOGY AD- 686 011

PERSONALITY OF STUDENT DIVERS

3

4

Ross, Helen

Availability: Pub. in Underwater Association Report p59-62 1968. No copies furnished. UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PERSONALITY, *SCUBA DIVERS), (*STUDENTS, PERSONALITY), PERSONNEL, SCIENTISTS, BREATHING APPARATUS, UNDERWATER, MOTIVATION, RECREATION, EXERCISE(PHYSIOLOGY), SWIMMING, UNIVERSITIES, PERFORMANCE(HUMAN), PREDICTIONS, GREAT BRITAIN

3 Aqualung diving in the universities is carried out both as a sport and as a tool for scientific enquiry. It is interesting to know what type of student takes up diving, and whether there are any useful criteria for predicting success at diving. An investigation was therefore made of the students who joined the Hull University Underwater Club during the past two years. (Author)

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35 PAGE

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 685 182 5/10 SHUFORD-MASSENGILL CORP LEXINGTON MASS ITEM ANALYSIS BASED ON CONFIDENCE RESPONSES,

3

MAS 69 48P Shuford, Emir H., Jr.; Massengill, H. Edward; REPT. NO. SMC-R-17 CONTRACT: F44620-69-C-0068, ARPA Grder-833 PROJ: AF-920F, AF-9719 MONITOR: AFOSR 69-0408TR

UNCLASSIFIED REPORT

DESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY),
RELIABILITY), (*PERFORMANCE(HUMAN), MEASUREMENT),
BEHAVIOR, PERFORMANCE(HUMAN), STATISTICAL DISTRIBUTIONS,
AIR FORCE TRAINING, ANALYSIS
IDENTIFIERS: *CONFIDENCE TESTING (U)

In examining the behavior of a group of subjects with respect to one test item, a distribution of confidence is obtained for each answer to the item. Empirical confidence distributions are analyzed for the responses of 98 students to 16 four-alternative items. Techniques are derived for computing both a difficulty index and a validity index from confidence data. Two graphical techniques are devised and applied to 16 items to indicate the ability of these items to discriminate between the better and poorer students. One graphical technique compares the confidence distributions for each of the possible answers for the upper and lower subjects while the other technique compares the frequency of occurrence of various states of knowledge in the upper and lower groups. (Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 685 181 5/10 SHUFORD-MASSENGILL CORP LEXINGTON MASS

CONTINUING CLASSROOM USE OF CONFIDENCE TESTING,

3

FEB 69 11P Massengill, H. Edward REPT. NO. SMC-R-16 CONTRACT: F44620-69-C-0068, ARPA Order-833 RROU: AF-920F, AF-9719 MONITOR: AFOSR 69-0407TR

UNCLASSIFIED REPORT

DESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY),
RELIABILITY), AIR FORCE TRAINING, PERFORMANCE(HUMAN),
MEASUREMENT, CORRELATION TECHNIQUES, ACCURACY
IDENTIFIERS: CONFIDENCE TESTING, MULTIPLE CHOICE
TESTS (U)

A fair method of testing is one which gives credit to students according to the amount of information they demonstrate relative to the topics covered by the test. The logarithmic admissible scoring system used in valid confidence testing is the only testing method which meets this criterion of fairness. Data obtained from the classroom testing of students at the Air University and a public junior high school is used to compare the information score yielded by Valid Confidence testing with the choice score from the traditional method. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

- 685 179 5/10 SHUFORD-MASSENGILL CORP LEXINGTON MASS AD- 685 179

3 CONFIDENCE TESTING AT THE OFFICER TRAINING SCHOOL, LACKLAND AIR FORCE BASE: SEPTEMBER 1968,

3

Shuford, Emir H. , Jr;

REPT. NO. SMC-R-15 CONTRACT: F44620-69-C-0068, ARPA Order-833

AF-920F, AF-9719 R: AFOSR 69-0406TR

MONITOR: PROJ:

SYSTEMS OF CONFIDENCE WEIGHTING: THEORY AND

PRACTICE,

SHUFORD-MASSENGILL CORP LEXINGTON MASS

AD- 685 180

DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

Shuford, Emir H. , Jr.;

JAN 69 31P Shuford, Emir H., .

Messengill, H. Edward;

REPT. NO. SMC-R-14

CONTRACT: F44620-69-C-0068, ARPA Order-833 PROJ: AF-920F, AF-9719 MONITOR: AFOSR 69-0405TR

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*AIR FORCE TRAINING, *PERFORMANCE(HUMAN)),
OFFICER PERSONNEL, TEST CONSTRUCTION(PSYCHOLOGY),
LEADERSHIP, CORRELATION TECHNIQUES
IDENTIFIERS: CONFIDENCE TESTING,

3 *CONFIDENCE(PSYCHOLOGY), MULTIPLE CHOICE TESTS

administered to 98 officer candidates in residence at the Officer Training School, Lackland Air yielded more information than choice responses would Force Base. Less than one hour was devoted to instructing the officer candidates on how to take a Valid Confidence test, and the normal time was then allowed for the students to respond to the 58 test items. Analysis of the data indicates that taking a Valid Confidence test requires no more time than normally allotted to test administration. instructions and gave confidence responses which All the officer candidates understood the A multiple-choice test on leadership was

3

have. Wide individual differences were observed in

the officer candidates' ability to realistically evaluate the quality of information. (Author)

3

information than does choice testing. (Author)

UNCLASSIFIED REPORT

3 ESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY), THEORY), (*PERFORMANCE(HUMAN), MEASUREMENT), AIR FORCE TRAINING, PERFORMANCE(HUMAN), CURVE FITTING, STATISTICAL DESCRIPTORS: ANALYSIS

3 DENTIFIERS: *CONFIDENCE TESTING, MULTIPLE CHOICE

established if and only if confidence measurements The validity and existence of confidence can be

candidates taking tests using the logarithmic scoring be shown to predict events occurring outside of person -- measurements which reflect the relation of the person to the world of objective and public events. The widely used external validity test suitably modified to take account of the possible existence of considerable amounts of misinformation and to recognize a base-line performance level provided by choice test information is the fundamental test for the validity of confidence conclusively indicates that confidence exists and that this type of confidence testing yields more The technique is used to evaluate data obtained measurement and of the existence of confidence. system of Valid Confidence testing. Data from Air Force basic airmen and officer

SEARCH CONTROL NO. ZOMOS SHUFORD-MASSENGILL CORP LEXINGTON MASS DDC REPORT BIBLIOGRAPHY

3 CONFIDENCE TESTING AT THE ACADEMIC INSTRUCTOR COURSE OF THE AIR UNIVERSITY: AUGUST AND SEPTEMBER 1968,

Massengill, H. Edward F44620-69-C-0068 PROJ: AF-920F, AF-9719 MONITOR: AFOSR 69-0404TR Shuford, Emir H. , Jr; REPT. NO. SMC-R-T3 39P CONTRACT:

UNCLASSIFIED REPORT

 $\widehat{\Xi}$ 3 ESCRIPTORS: (*TEST CONSTRUCTION(PSYCHOLOGY), AIR FORCE TRAINING), STATISTICAL ANALYSIS, STUDENTS, PERFORMANCE(HUMAN), EFFECTIVENESS, CORRELATION IDENTIFIERS: *CONFIDENCE TESTING, MULTIPLE CHOICE DESCRIPTORS: TECHNIQUES

paper reports the results of the second in a

3 confidence response enables an instructor to obtain & student's specific strengths and weaknesses on each indicating the extent of each student's information distribution of the degrees of confidence placed on inferred choice scores and confidence scores shows testing yielded information from the students over efficient reteaching. An analysis, made of each possible answer on the August unit test, yields a series of experiments aimed at developing and evaluating procedures for using Valid Confidence testing in instructional settings. The data indicate that in most instances Valid Confidence and above what could have been obtained from the that the choice scores would have been unfair in test question making possible more effective and much more accurate idea than ever before of each choice scores on the same test. A comparison of on the test. The data illustrate how the that answer by the students. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL MEDICAL RESEARCH INST BETHESDA

INTERPERSONAL EXCHANGE AS A FUNCTION OF REWARD/COST AND SITUATIONAL FACTORS: EXPECTANCY CONFIRMATION-DISCONFIRMATION.

3

MR005.12-2005-1, MR006.05-Taylor, Dalmas A. ; Altman, DESCRIPTIVE NOTE: Medical research interim rept., Irwin ; Sorrentino, Richard NAVMED, NAVMED 4 MONITOR:

Convention, American Psychological Association Availability: Pub. in Proceedings, Annual UNCLASSIFIED REPORT (76th), p409-410 1968.

3 (*HUMANS, INTERACTIONS), INTERCOMMUNICATION SYSTEMS, SIMULATION, UNDERWATER VEHICLES, QUESTIONNAIRES, STATISTICAL DATA, VERBAL BEHAVIOR, RESEARCH MANAGEMENT, ATTITUDES(PSYCHOLOGY), REACTION(PSYCHOLOGY), TIME (*PSYCHOLOGICAL TESTS, PERSONALITY TESTS), DESCRIPTORS:

3 relationships. It is hypothesized that growth of a relationship is a result of interpersonal reward-cost talking about the self, breadth of self-disclosure, positive and favorable to negative and unfavorable, and vice versa, and (c) situational presses The present study is part of a research program on social penetration processes, which deals with the growth and development of interpersonal determinants, and mediating cognitive events. This study specifically examines several aspects of the factors, personality characteristics, situational and depth of self-disclosure) in relationship to acting on a dyad, i.e., ease of terminating and social penetration process (average time spent shifts in reward-cost balances from initially (a) interpersonal rewards and costs, (b) nterpersonal relationship. (Author)

39

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

ARMY MEDICAL RESEARCH LAB FORT KNOX KY 6/16

SOME PERSONALITY CORRELATES OF TREADMILL PERFORMANCE UNDER PUBLIC AND PRIVATE SURVEILLANCE.

Kohfeld, David L. ; Harker, DESCRIPTIVE NOTE: Interim rept., 18P NOV 67

George S. : McClaskey, E. Booker ; USAMRL-760

DA-3A014501A74D PROJ:

3A014501A74D-00

UNCLASSIFIED REPORT

3 EXERCISE(PHYSIOLOGY), MOTOR REACTIONS, PERFORMANCE(HUMAN)), EXERCISE(PHYSIOLOGY), MOTOR REACTIONS, PERSONALITY, PERFORMANCE(HUMAN), CORRELATION TECHNIQUES, BEHAVIOR, GROUP DYNAMICS, PSYCHOPHYSIOLOGY, MOTIVATION, TEST CONSTRUCTION (PSYCHOLOGY) DESCRIPTORS:

performed privately. The individual differences in work output between the two experimental conditions were found to be related to scores on some scales of the California Psychological Inventory. effort during treadmill exercise was tested by using faster when an audience was present than when they The role of subject factors in the expenditure of a technique which gave S continuous control over his walking speed. It was found that Ss walked (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

- 664 657 5/9 5/10 NAVAL SUBMARINE BASE NEW LONDON CONN

3 SOME GENERAL COMMENTS CONCERNING PERSONNEL SELECTION FOR HAZARDOUS DUTY-AFTER SIX YEARS OF RESEARCH IN SUBMARINE SELECTION.

Weybrew, Benjamin B. : Miles, DESCRIPTIVE NOTE: Memorandum rept., Walter R. ; Bond, George F. ; 14P 62

NAVMED-MR005.14-2100-1 SBNL-Memo-62-5 MR005.14-2100-1.10 REPT. NO. PROJ: TASK:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PSYCHOLOGICAL TESTS, SUBMARINE
PERSONNEL), (*SUBMARINE PERSONNEL, SELECTION), APTITUDE
TESTS, PERSONALITY TESTS, ADJUSTMENT(PSYCHOLOGY),
PERFORMANCE(HUMAN), QUESTIONNAIRES,
CONFINEMENT(PSYCHOLOGY) DESCRIPTORS:

3 psychological and psychophysiological processes which are most and least predictive of individual differences in adjustment to the hazardous conditions programs is the unreliability and often irrelevance most serious limitation in all military selection of adjustment criteria. Workers in selection are Objective tests of aptitude and personality are useful predictors of submariner adjustment. The existing during prolonged marine submergence provided suggestions as to the classes of (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 662 104 5/10 NAVAL MEDICAL RESEARCH INST BETHESDA MD THE RELATIONSHIP BETWEEN PERSISTENCE, INSOLENCE, AND PERFORMANCE, AS A FUNCTION OF GENERAL ABILITY, (U)

65 16P Kipnis, David;

UNCLASSIFIED REPORT

Availability: Published in Educational and
Psychological Measurement v25 n1 p95-110 1965.

DESCRIPTORS: (*PERSONALITY, *BEHAVIOR), MOTIVATION, STRESS(PSYCHOLOGY), SOCIAL PSYCHOLOGY, PERFORMANCE(HUMAN), NAVAL PERSONNEL, PREDICTIONS, INTELLIGENCE TESTS, PERSONALITY TESTS, APTITUDE TESTS

Two hypotheses were tested: (1) The relationship between persistence, as measured by the Hand Skills Test, and school and job performance is a function of general intelligence. Among lower ability men persistence will be positively related to performance. Among higher ability men persistence will not be related to performance. (2) The relationship between the Insolence Scale and school and job performance is a function of general intelligence. Among lower ability men, the Insolence Scale will not be related to performance. Among higher ability men, the Insolence Scale will be negatively related to performance. Among higher ability men, the Insolence Scale will be negatively related to performance. Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 662 092 5/10
NAVAL MEDICAL RESEARCH INST BETHESDA MD

THE INTERACTION OF PERSONALITY AND INTELLIGENCE IN TASK PERFORMANCE, (U)

65 14P Kipnis, David ; Wagner, Carl PROJ: NAVMED-MF-022.01-03-1002

K: MF022.01.03-1002-7

UNCLASSIFIED REPORT Availability: Published in Educational and Psychological Measurement v25 n3 p731-44 1965. DESCRIPTORS: (*PERSONALITY, *BEHAVIOR), SOCIAL
PSYCHOLOGY, MOTIVATION, PERFORMANCE(HUMAN), INTELLIGENCE
TESTS, PERSONALITY TESTS, APTITUDE TESTS, NAVAL
PERSONNEL, PREDICTIONS
(U)

 $\widehat{\boldsymbol{\varepsilon}}$

Prior field studies had found that intelligence moderated the validity of two non-cognitive tests that had been developed to predict the job performance of Navy enlisted men. The first test was an attempt to measure persistence, and the second test was a purported measure of passive-aggressive character structure called the Insolence Scale. The present study tested the hypothesis that task difficulty was the basis for the field study results. From 70 to 140 Navy enlisted men completed three tasks, each of which was varied in task difficulty. Results did not support the hypothesis concerning task difficulty. However, they did yield significant interactions between intelligence, the two tests, and aspects of task performance. The findings then parallel in a lab setting those of the original field studies. Internal analysis suggested that task motivation, rather than task difficulty, may be the basis for the interactions between the persistence test and performance.

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PAGE

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objective tests of personality revealed that males

panic response with those who did not on three service. Comparing those who demonstrated the

who panicked scored significantly higher on the

Neuroticism Scale of the Maudsley Personality Inventory than males who did not panic.

younger Naval Reservists with shorter periods of

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NORTH CAROLINA UNIV CHARLOTTE

INDIVIDUAL BEHAVIOR IN A SIMULATED PANIC

3

DESCRIPTIVE NOTE: Final technical rept. 15 Oct 66-14 SITUATION.

OCT 67 40P Schultz, Duane P. CONTRACT: NO0014-67-C-0131

PROJ: NR-170-274

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-637 604.

33 PSYCHOLOGY, GROUP DYNAMICS, PERSONALITY, ADJUSTMENT(PSYCHOLOGY), FEAR, REACTION(PSYCHOLOGY), ABANDONMENT, FIRE SAFETY, DISASTERS, PERSONALITY TESTS, (*BEHAVIOR, *SURVIVAL(PERSONNEL)), SOCIAL NEUROSES IDENTIFIERS: PANIC BEHAVIOR DESCRIPTORS:

Studies are reported in which S's effort to escape a danger situation are thwarted by the actions of fellow group members jamming the escape exit in their own escape attempts. S could either try to-escape in cooperation with the others by waiting his turn, or sacrifice them in order to save himself. Response behavior was investigated as a function of service demonstrated a marked, though nonsignificant, significant differences in incidence of panic were found between: (1) males vs. females, (b) females from two subject populations, (c) mixed sex vs. single sex groups, (d) United States reduction in the panic response, as compared to group composition and personality variables. No Naval Reservists vs. male college students. Older Naval Reservists with longer periods of

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

AD- 659 962 5/10 DOUGLASS COLL NEW BRUNSWICK N J

3 IMPRESSION FORMATION AS A MEASURE OF THE COMPLEXITY OF CONCEPTUAL STRUCTURE.

DESCRIPTIVE NOTE: Technical rept., SEP 67 25P Streufert,Siegfried ;Driver Michael J. ;

REPT. NO. TR-5 CONTRACT: N00014-67-A-0115-0002

PROJ: NR-177-911

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Purdue Univ., Lafayette, Ind.

CONSTRUCTION(PSYCHOLOGY), PERCEPTION(PSYCHOLOGY), PREDICTIONS, RELIABILITY, ANALYSIS OF VARIANCE, ATTITUDES(PSYCHOLOGY), SOCIAL PSYCHOLOGY, BEHAVIOR DESCRIPTORS: (*PERSONALITY TESTS, *TEST

3

3 An alternate is presented to the sentence completion test, which was specifically designed to measure one kind of complexity only: perceptual considerable alteration in both administration and social complexity. This measure is called the Impression Formation Test. In its original form it was first proposed by Streufert and Schroder (1963), but has since undergone analysis. (Author)

3

and administration instructions are provided.

UNCLASSIFIED

(Author)

UNCLASSIFIED 42 PAGE

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

ILLINOIS UNIV URBANA LAB OF PERSONALITY ASSESSMENT AND GROUP BEHAVIOR AD- 659 423

3 DISCOVERY AND DEVELOPMENT OF MEASUREMENT SCALES FOR THE DIMENSIONS OF ANXIETY.

DESCRIPTIVE NOTE: Rept. for 1 Aug 55-31 Jul 57, JUL 57 99P Cattell, Raymond B. ; Scheier, DA-49-007-MD-620 CONTRACT: Ivan H

UNCLASSIFIED REPORT

 $\widehat{\Xi}$ DESCRIPTORS: (*ANXIETY, FACTOR ANALYSIS), PSYCHOLOGICAL TESTS, PERSONALITY, PERSONALITY TESTS, TEST CONSTRUCTION(PSYCHOLOGY), NEUROSES (U)

A total of 172 different objective, questionnaire, personality, were administered to 86 male college occasion 2, four weeks later, and (c) on changes in score between occasions, for the 72 variables rating, and environmental-condition variables, students. Factor analyses were performed on measurements (a) at occasion 1, (b) at measuring anxiety, and related aspects of

common to (a) and (b). A single major conscious anxiety factor was confirmed in these three analyses, and further defined by cross-comparisons of loadings with six other factor analytic studies. This factor is primarily characterized by lack of self assurance and symptoms of tension, and is reliably distinguishable from neuroticism and all other known personality factor-dimensions.

Assessments of overall anxiety level, made

independently by two psychiathists, agree in loading this factor but disagree generally in loading pattern elsewhere, and correlate only + 24. What is essentially common to the majority of alleged physiological and psychological tests of anxiety, and to psychiatrists ratings is therefore a docendable, reproducible unitary factor, labeled U.I. 24 in the universal index series of thirty psychological of all the above data yields proposals for two anxiety test batteries. Test copies, scoring keys students and intercorrelations computed. Analysis factors. Tests loading highly or consistently on measures, were readministered to 187 male college U. I. 24, with various newly constructed anxiety

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

14/5 15/4 15/4 ARMY BEHAVIORAL SCIENCE RESEARCH LAB WASHINGTON D C AD- 657 583

IMPACT OF FEEDBACK ON ACCURACY OF CONFIDENCE LEVELS ASSIGNED BY INTERPRETERS.

3

Thomas, James A. ; Sadacca, DESCRIPTIVE NOTE: Technical research note 27P JUN 67

Robert : BESRL-TRN-187 PROJ: DA-2J620901A721

UNCLASSIFIED REPORT

ESCRIPTORS: (*PHOTOINTERPRETATION, *PSYCHOLOGICAL TESTS), (*PHOTOINTERPRETERS, ATTITUDES(PSYCHOLOGY)), FEEDBACK, COMPUTERS, SIMULATION, PHOTOGRAPHIC DESCRIPTORS:

PERFORMANCE (HUMAN)

INTELLIGENCE, TARGETS, IDENTIFICATION, IDENTIFIERS: CONFIDENCE (PSYCHOLOGY)

33

presented under simulated computerized conditions in improving the performance of interpreters in judging supported previous findings that interpreters do not as a rule make dependable evaluations of their the value of their own identifications. Results The study dealt with the utility of feedback identifications. Confidence ratings made by

somewhat more accurate expressions of confidence than feedback were the least precise. It was concluded that interpreters' confidence ratings can be improved interpreter to reach an operationally useful level of interpreters in the high performance subgroup were generally more accurate and complete than those made in the low performance subgroup. Two feedback techniques in which the interpreters were given only data on previous rating performance--their own and their own corrected reports and the imagery they had by practice in applying a knowledge-of-results frame accuracy in evaluating the information he provides. did the technique in which interpreters were given of reference. Findings suggest, however, that more their own plus that of other classes -- resulted in reported by the interpreter group receiving no than two practice sessions are needed for the previously interpreted. Confidence ratings

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 656 631 17/2 5/10
PURDUE RESEARCH FOUNDATION LAFAYETTE IND

VOICE COMMUNICATION: EFFECT OF STRESS ON TALKERS, A PERSONALITY STUDY. (U)

CONTRACT: NGori-104(02)
PROJ: NR-782-003, SPECDEVCEN-20-K-1
MONITOR: SPECDEVCEN 104-2-11

UNCLASSIFIED REPORT

DESCRIPTORS: (*SPECH, INTELLIGIBILITY), (*SPEECH TRANSMISSION, STRESS(PSYCHOLOGY)), (*PERSONALITY, SPEECH), PROJECTIVE TECHNIQUES, PERSONALITY TESTS

E

The purpose of the present study was to discover any aspects of personality as measured by the Rorschach Test and the Minnesota Multiphasic Personality Inventory which tend to be related to loss in intelligibility under stress conditions. (U)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

D- 656 629 17/2 5/9 PURDUE RESEARCH FOUNDATION LAFAYETTE IND VOICE COMMUNICATION: RETENTION OF IMPROVED INTELLIGIBILITY,

3

JAN 48 22P Kelly, J. C. ; Hanley, T.

CONTRACT: NGOri-104(02)

PROJ: NR-782-003, SPECDEVCEN-20-K-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-638 351.

DESCRIPTORS: (*SPEECH, INTELLIGIBILITY), (*SPEECH TRANSMISSION, TRAINING), RETENTION(PSYCHOLOGY), VOICE COMMUNICATIONS, TRAINING DEVICES, PERFORMANCE(HUMAN), NOISE, EXPERIMENTAL DESIGN, PERFORMANCE(HUMAN), (U)

The purpose of this study was to investigate the retention of improved intelligibility for voice communications. The subjects included 176 male undergraduate students at Purdue University, 99 of whom were designated experimental and 77 control. The basic experimental design included the following steps: (A) a pre-training test, including all subjects, experimental and control; (B) a training period for the experimental subjects only, involving one hour of training the post-training test at intervals of 65 and 100 days. The following test at intervals of 65 and 100 days. The following results were obtained: (a) Subjects given training maintained superiority over untrained subjects by a margin statistically significant after 65 days and 100 days. (b) Although differences related to type of training the differences did not persist for 100 days. (c) Iraining, regardless of type and degree of noise barrier, was more effective than no training at all.

43

PAGE

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL MEDICAL RESEARCH INST BETHESDA MD AD- 655 651

THE DEVELOFMENT AND USE OF THE PRIMARY AFFECT SCALE (PAS).

DESCRIPTIVE NOTE: Research rept., TASK: MF022.01.03-1006-1 Thomas

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*EMOTIONS, *PSYCHOLOGICAL TESTS), TEST CONSTRUCTION(PSYCHOLOGY)

3 priori areas: Happiness, Anger, Fear, Depression, and Arousal. Choice of measurement model, scaling procedures, and use of the scales are measure subjective affect or feelings in five a Ten verbal self-report scales were developed to discussed. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

MANITOBA UNIV WINNIPEG 5/10 AD- 650 339

PERSONALITY FACTORS IN THE SELECTION OF CIVILIANS FOR ISOLATED NORTHERN STATIONS: A FOLLOW-UP STUDY,

Sisler, George C. ; Quarrington, Bruce ; 96 67

Prepared in cooperation with Toronto Availability: Published in Canadian Psychologist/Psychologie Canadienne v8a n1 p23-31 UNCLASSIFIED REPORT SUPPLEMENTARY NOTE:

Univ. (Ontario).

DESCRIPTORS: (*CIVILIAN PERSONNEL, ARCTIC REGIONS), (*ADJUSTMENT(PSYCHOLOGY), *PERSONALITY TESTS), CONFINED ENVIRONMENTS, ADAPTATION(PHYSIOLOGY), SOCIAL PSYCHOLOGY, SELECTION, URBAN AREAS, PREDICTIONS, MOTIVATION, MORALE, CANADA

associated with favorable work and social adaptation in isolated, semi-isolated and urban settings. 614 Department of Transport employees completed applied to a validation sample. The predictive usefulness of this battery for northern selection is function analysis from the total group failed to yield classifications beyond chance expectancy when Occupational preference tests. For the total group adequacy of work and social adjustment was associated with 11 of 35 variables, the not Kecorrected MMPI scale being the most consistent of the three tests in discriminating adjustment. The Suppressor (K) score was positively related to good psychological adjustment. The same personality traits appear to contribute to poor An investigation of personality characteristics adaptation in urban as in isolated settings. Prediction formulae derived by discriminant MMPI, Edwards Personal and Brainard questioned. (Author)

PAGE

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

STANFORD UNIV CALIF GRADUATE SCHOOL OF BUSINESS

PERCEPTION OF LEADERSHIP IN SMALL GROUPS.

3

Harrell, Thomas W. : DESCRIPTIVE NOTE: Final rept., Nonr-225(62) 18P PROJ: NR-171-388 CONTRACT: NONF

UNCLASSIFIED REPORT

DESCRIPTORS: (*LEADERSHIP, PERCEPTION(PSYCHOLOGY)), (*GROUP DYNAMICS, *PERCEPTION(PSYCHOLOGY)), PERSONALITY, PSYCHOLOGICAL TESTS, SOCIAL COMMUNICATION (U)

were some significant differences between the extreme end of the course subjects plus other class members and five man discussion groups. Some groups met for four sessions. An outside observer counted the performers in the small discussion groups on their Three hundred thirty-four men were studied in four number of times each man talked. Discussion group role differentiation at the end of four sessions. correlated significantly with current grade point average but not very much with test scores. There Participation, Best Ideas, Guidance, and Leadership. Discussion group members rated the others only on Being Liked. Subjects took a nine instrument personality test battery. At the peer ratings. There were a few significant personality test differences between the extreme rated each other on their positive and negative choices for Boss, Emotional Maturity, and Friend and Associate. There were no clear cut Peer ratings for positive and negative boss members rated the others and themselves on performers in the small discussion groups. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 646 377 AKRON UNIV OHIO

GENERALIZABILITY OF GAME PLAYING SKILL.

3

Shriver, June DeLuca; Technical rept., 118P DESCRIPTIVE NOTE: 99

REPT. NO. TR-3 CONTRACT: Nonr-4302(00) PROJ: NR-177-356

UNCLASSIFIED REPORT

DESCRIPTORS: (*DECISION MAKING, PERFORMANCE(HUMAN)), (*GAME THEORY, DECISION MAKING), PROBLEM SOLVING, PSYCHOLOGICAL TESTS, INTELLIGENCE TESTS, PERSONALITY TESTS, GROUP DYNAMICS, SOCIAL PSYCHOLOGY, LEARNING,

3

The study attempted to discover whether (1)

robin tournament of two games of strategy. Each was presented with a puzzle to solve. Their number of wins in each of the two games of strategy and their definitions of strategic games was not demonstrated by this study, (2) there is no relationship between preference for and experience in strategic biographic, intellective, self-reported preference and experience scores, and personality factors as and 12 non-science majors) participated in a round skill between two games which meet the operational generalizable to another strategic game, (Pipeline), (2) strategic skill is different from puzzle-solving skill, (3) preference for and personality factors, as measured by the Guilford-University of Akron students (12 science majors skill in one strategic game (The Game of 99) is measured by the Guilford-Zimmerman Temperament Zimmerman Temperament Survey, are related to skill in games of strategy. Twenty-four male following conclusions: (1) generalization of weighted puzzle scores were correlated with Survey. The results seem to justify the experience in strategic games, and (4)

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games, activities or situations and strategic skills as measured by the Game of 99 and Pipeline, and

3

(3) no relationship was demonstrated between skill in the Game of 99 or Pipeline and personality factors as measured by the Guilford-

Zimmerman Temperament Survey. (Author)

ZOMOS

J- 645 666 5/10 5/9 NEW YORK UNIV N Y RESEARCH CENTER FOR INDUSTRIAL BEHAVIOR AD- 645 666

CRITERIA AND TRANSFER OF TRAINING,

3

Weitz, Joseph Nonr-285(51) 16P CONTRACT:

Availability: Published in Psychological Reports v19 p195-210 1966. UNCLASSIFIED REPORT

3 DESCRIPTORS: (*TRANSFER OF TRAINING, PSYCHOLOGICAL TESTS), ANALYSIS OF VARIANCE, STANDARDS, PERSONALITY TESTS, LEARNING

points in time during the transfer sequence. It was found that for leasy' transfer situations the effect of an independent variable is apparent early in the transfer sequence and on a more 'difficult' task the effect of the independent variable is apparent later in the transfer sequence. The effectiveness of the transfer of task approach is discussed within the framework of task difficulty. From these findings some implications for training and some hypotheses concerning the validation of personality tests are Using a new matrix learning task an attempt is made to determine the basis of transfer by observing the effect of using criterion measures at different suggested. (Author)

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

UNCLASSIFIED

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO AD- 644 809 CALIF

3 PERSONALITY DIFFERENCES AMONG NAVY OCCUPATIONAL GROUPS,

Gunderson, E. K. Eric ; Nelson, 8 65-2 REPT. NO. Paul D.

Availability: Published in Personnel and Guidance MR005.12-2004-1 UNCLASSIFIED REPORT Journal p956-61 May 1966. NAVMED

DESCRIPTORS: (*PERSONALTITY, NAVAL PERSONNEL), (*NAVAL PERSONNEL, MILITARY PSYCHOLOGY), JOB ANALYSIS, GROUP DYNAMICS, PERSONNEL, LABOR, MOTIVATION, PSYCHOLOGICAL

3 in test scores among groups could be accounted for by dichotomizing the six occupational specialties into two broad categories, 'white collar' 'experienced' and 'inexperienced' categories. Significant differences between groups were present experience were controlled by dividing groups into for 29 of the 62 comparisons. Most of the variance relationships between choice of occupational speciality and the value systems, needs, and motivations of individuals in the naval service. Differences among six Navy occupational groups (Administrative, Technical, Mechanical, Electrical, Construction, and Cooks) were determined for 31 personality and value scales, including the Allport-Vernon-Lindzey Study of Values, the Survey of Interpersonal Values, and the FIRG-B Inventory. Age and Navy collar' (other groups). The results suggested (Administrative and Technical) and 'blue

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 642 544 5/10 17/2
ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D C
TRANSCRIBER CONFIDENCE IN RELATION TO ACCURACY OF
TRANSCRIPTION.

DESCRIPTIVE NOTE: Technical research note, JUL 66 23P Stichman, Eugene P.; REPT. NO. APRO-TRN-175 PROJ: DA-2-J-024701-A-723

UNCLASSIFIED REPORT

DESCRIPTORS: (*VOICE COMMUNICATIONS, INTELLIGIBILITY), (*PERFORMANCE (HUMAN), VOICE COMMUNICATIONS), PSYCHOLOGICAL TESTS, OPERATORS(PERSONNEL), SIGNAL-TO-NOISE RATIO, SPEECH, ERRORS IDENTIFIERS: CONFIDENCE(PSYCHOLOGY) (U)

3 intelligibility and mean confidence ratings increased noise ratios. Confidence was expressed through the use of a five-point rating scale ranging from 'fully confident' to 'not at all confident', and a separate rating was assigned to each word in a list as it was transcribed. A significant relationship was sufficient to warrant further research using trained obtained between transcriber confidence and accuracy listening conditions in the field, the relationship signal-to-noise ratios -- appears to provide a stable intelligibility and expressed confidence in the correctness of transcription--were obtained from 8 Signal-to-noise ratio did not similarly affect the untrained in communications serve as transcribers. While far from perfect, the relationship is between confidence and accuracy--averaged across Army enlisted men (untrained in communications) transcribing word lists received at 3 signal-to-Because of generally unpredictable and unstable transcriber confidence of correct reception and Measures of two aspects of performance--message as a direct function of signal-to-noise ratio. estimating transcript accuracy. Conclusion was that a positive relationship exists between measure which is the best practical basis for relationship between confidence and accuracy. message intelligibility, even when personnel of transcription. As expected, both mean communications transcribers. (Author)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 640 884 5/9 5/10
PENNSYLVANIA STATE UNIV UNIVERSITY PARK

THE EFFECTS OF MENTAL HYGIENE FILMS ON SELF-REGARDING ATTITUDES. (RAPID MASS LEARNING).

3

DESCRIPTIVE NOTE: Technical rept.,
JUL 51 15P Mertens, Marjorie S.
CONTRACT: N6on--269(07),
PROJ: NR-781-005,20-E-4
MONITOR: SPECDEVCEN 269-7-22

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TRAINING FILMS, EFFECTIVENESS), (*MOTION PICTURES, ADJUSTMENT(PSYCHOLOGY)), PERSONALITY, PSYCHOLOGICAL TESTS, ATTITUDES(PSYCHOLOGY), PERCEPTION(PSYCHOLOGY), TEACHING METHODS, LEARNING (U)

The objective of this study was to learn whether or not a series of mental hygiene films could be used to effect changes in self-regarding attitudes and consequently effect improvement in an individual's personal adjustment. It was concluded that selected films can have some influence on an individual's perception of himself and may effect changes in the way he regards himself. Films are probably effective to the extent that they treat problems similar to those faced by the individual, and to the extent that the problems are shown to evolve out of situations closely similar to those evolve out of situations closely similar to those himself.

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

DUKE UNIV DURHAM N C AD- 640 568

3 THE USE OF MULTIVARIATE REGRESSION USING DUMMY VARIABLES IN SOCIAL-PSYCHOLOGICAL EXPERIMENTS.

DESCRIPTIVE NOTE: Technical rept., SEP 66 24P Back,Kurt W.;Winsborough,H.

REPT. NO.

Nonr-1181(11), PROJ: NR-177-470, CONTRACT:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared for presentation at the Annual Meetings of the American Psychological Association, Chicago, Illinois, September, 1965.

 $\widehat{\Xi}$ DESCRIPTORS: (*PSYCHOLOGICAL TESTS, STATISTICAL TESTS), SOCIAL PSYCHOLOGY, ANALYSIS OF VARIANCE, CORRELATION TECHNIQUES, PERSONALITY, MOTIVATION (U)

variables can be combined in the regression equation defined by the dummy variables, that is, no analysis of covariance problem should exist. (Author) Multiple regression analysis using dummy variables makes regression techniques possible in experimental designs instead of analysis of variance. These absence of a dichotomous trait, e.g., 'i' or '0' for being in an experimental group or not. Several variables leaving one category with a zero value on dummy variables are created for each dimension, for different in the separate sectors of the population all dummy variables. In a multidimensional design, with continuous variables or other dummy variables 'scoring' individuals according to the presence or necessary in regression analysis about variables representing background or previous experimental categories are dealt with by creating n-1 dummy regressions of the dependent variables on the each combination of categories or particular combinations of dimensions. No assumption is underlying the qualitative categories. Dummy continuous variable can not be significantly techniques have been applied previously to demographic data, but not to psychological experiments. Dummy variables are created by treatment. In this case the slope of the

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

DUKE UNIV DURHAM N C AD- 630 951

PLANNED AND INTRINSIC VARIABLES IN THE SOCIAL

PSYCHOLOGICAL EXPERIMENT.

3

DESCRIPTIVE NOTE: Technical rept., 66 25P Back,Kurt W.;Wilson,

Stephen R. ; Bogdonoff, Morton D.; Troyer, William G.

REPT. NO. TR-20, CONTRACT: Nonr-1181(11),NIH-M-5356 PROJ: NR-177-470.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*SOCIAL PSYCHOLOGY, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, STRESS(PSYCHOLOGY)), GROUP DYNAMICS, REACTION(PSYCHOLOGY), PSYCHOPHYSIOLOGY, FATTY ACIDS, AUTONOMIC NERVOUS SYSTEM, PERSONALITY, PERFORMANCE (HUMAN) DESCRIPTORS:

The study was designed to investigate, with the aid of physiological measurements, the subject's reaction in a standard experiment. The following questions were investigated: (1) Do activities incidental to the experimental process, such as the order in which the subjects are tested and the conditions of waiting, affect the subjects; (2) Does the introduction of experimental variables arouse the conditions, such as personality traits and previous experience, make a difference in the importance of subject separately from, and in addition to, the experimental arousal itself; (3) Do individual intrinsic factors; (4) Do these differences in arousal affect the results of the experiment.

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48

PAGE

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

UNCLASSIFIED

AD- 628 951 5/10
PERSONNEL RESEARCH LAB (6570TH) AEROSPACE MEDICAL DIV LACKLAND AFB TEX

SET AND CONTENT SCORES FOR PERSONALITY SCALES AND RESPONSE STYLES IN THE MMPI, (U)

JUN 64 6P Liberty, Paul G. , Jr.; Vitola, Bart M. ; Pierson, Jerome S. ;

PROJ: AF-7719, TASK: 771902. UNCLASSIFIED REPORT
Availability: Published in Journal of Applied
Psychology, v49 n5 p326-31 1965. Copies to DDC users
only.

SUPPLEMENTARY NOTE: Prepared in cooperation with Texas Univ., Austin.

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), ANALYSIS

3

Set and content scores from 3 MMPI scales,
Edwards SD scale, the Manifest Anxiety scale
(MA), and the Masculinity-Femininity (Mf)
scale, were derived by an adaptation of the
Helmstadter technique for obtaining separate
(acquiescence) set and content scores from
personality scales. In a factor analysis of scores
for 150 male college Ss on 54 variables, the MASet and SD-Set variables defined a common
factor, but only the MF-Set variable loaded the
second, or acquiescence, factor. The inconsistency
of these results indicated that the set formula was
not consistently measuring, or reflecting,
acquiescence, or any other construct, and furthermore
suggested the need for caution in making acquiescence
interpretations based on the Helmstadter procedure.

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

UNCLASSIFIED

AD- 627 437 5/10
WASHINGTON UNIV SEATTLE

INSTRUCTIONS AND THE SIMPLEX IN PERSONALITY ASSESSMENT.

3

JAN 66 37P Bloxom, Bruce M. CONTRACT: Nonr-477(33), PHS-MH-743-08

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONALITY, MEASUREMENT), (*PSYCHOLOGICAL TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), (*TEST CONSTRUCTION(PSYCHOLOGY), PSYCHOLOGICAL TESTS), FACTOR ANALYSIS, STATISTICAL FUNCTIONS, CORRELATION (U)

The report reviews previous research on instructions used to administer personality measures. The main finding is that most of this research has been focused on what can be manipulated by instructions, not on what it is in the instructions that does the manipulation. The report also reviews attempts to deal with the problem of the simplex (or Guttman scale) as it affects the factor analysis of personality measures. The principal finding is that there is presently no completely satisfactory method for taking the simplex into account in a multi-dimensional factor analysis. The report develops a method, and corresponding rationale, for the comparison of factor analytic results obtained under different instructions. The method can be applied, whether or not the simplex is taken into account in the factor analyses.

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(Author)

disparate results of the set variables, such as the

Some speculations were advanced to account for the

Ξ

implications for the clarification of the nature of

acquiescence in personality scales. (Author)

scale keying in future research may indicate what

set procedure is measuring and have potential

parent' scales. A systematic variation of such

degree of true-false and SD-SUD keying in the

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 627 182 5/10
WASHINGTON UNIV SEATTLE

NGER-AROUSING INSTRUCTIONS AND THE SIMPLEX IN A PERSONALITY QUESTIONNAIRE, (U)

JAN 66 114P Bloxom,Bruce McArthur CONTRACT: Nonr-477(33),PHS-MH00743-08

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, FACTOR ANALYSIS), STRESS(PSYCHOLOGY), ANXIETY, COMPUTER PROGRAMMING, STATISTICAL ANALYSIS, CORRELATION TECHNIQUES, ANALYSIS OF VARIANCE

The report develops a theoretical framework for the comparison of factor structures in personality assessment for the case of nonoverlapping samples of entities. Data are collected on three groups of subjects, each group performing under a different set of instructions. The data are analyzed using a simplex-free and a simplex-confounded statistic. There is evidence that scalable aspects of the instructions can predict the effect of the instructions on the factor structures obtained under those instructions. The simplex-free statistic reveals instructions effects differently and is less reliable than the simplex-confounded statistic. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 627 011 5/9 5/10
NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA

THE RELATIONSHIP OF THE EDWARDS PERSONAL PREFERENCE SCHEDULE TO SUCCESS IN NAVAL FLIGHT TRAINING, (U)

OCT 65 14P Peterson, Floyd E.; Lane, Norman E.; Kennedy, Robert S.; REPT. NO. NAMI-946 MF022.01-5001.1-46

UNCLASSIFIED REPORT

DESCRIPTORS: (*AVIATION PERSONNEL, SELECTION), (*PSYCHOLOGICAL TESTS, AVIATION PERSONNEL), (*PERSONALITY, PSYCHOLOGICAL TESTS), NAVAL TRAINING, PERFORMANCE(HUMAN)

3

The Edwards Personal Preference Schedule, a forcedchoice personality 'need' inventory, was evaluated as a predictor of success or failure in naval flight training. The EPPS failed to discriminate between student aviators who completed training successfully and those who dropped (Author)

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UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

- 626 753 5/10 VANDERBILT UNIV NASHVILLE TENN AD- 626 753

3 CHARACTERISTICS OF THE VOLUNTEER FOR PSYCHOLOGICAL INVESTIGATIONS.

DESCRIPTIVE NOTE: Technical rept., NOV 65 48P Ora, John P. , Jr.; Nonr-2149(03) TR-27 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, ABNORMAL PSYCHOLOGY), (*ABNORMAL PSYCHOLOGY, PSYCHOLOGICAL TESTS), PERSONALITY, MOTIVATION, ATTITUDES(PSYCHOLOGY), NEUROSES, FEAR, ANXIETY, BEHAVIOR, SOCIAL PSYCHOLOGY, GROUP DYNAMICS IDENTIFIERS: VOLUNTEERS

asked in evaluating volunteers for psychological investigation is not whether they are representative of the population, but on what dimensions they are unrepresentative; and whether the particular dimensions on which they are unrepresentative defeat psuedo-volunteers is stressed. A comprehensive survey and summarization of the literature suggests that the less socio-cultural influences favor is considered as a function of background, message, methodological distinction between volunteers and volunteering, the more volunteers will tend to be unaware of social desirability, unconventional, neurotic, and introverted than nonvolunteers. It was concluded that an appropriate question to be volunteering (vg) for psychological experiments On the basis of the relevant experimental data, the purposes of the investigation. (Author) and personality variables. The important

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

ARMY HOSPITAL WEST POINT N Y AD- 622 296

PERSONALITY-LEADERSHIP CORRELATES OF TRAINFIRE MARKSMANSHIP OF NEW WEST POINT CADETS.

3

Lauterback, Carl G. DESCRIPTIVE NOTE: Research rept., 16P

Vielhaber, David P. ;

REPT. NO. RR-20 CONTRACT: 0TSG6 60 10 016

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 DESCRIPTORS: (*ARMY TRAINING, GUNNERY), (*PSYCHOLOGICAL TESTS, ARMY PERSONNEL), PERSONALITY, LEADERSHIP, MILITARY PSYCHOLOGY, EMOTIONS, ANXIETY, PERFORMANCE (HUMAN)

DENTIFIERS: LEADERSHIP TRAINING

Confidence in firing ability (predicted score)
was unrelated to personality traits among experienced firers, who presumably base prediction on experience. Apprehensiveness and Sophistication, and lower in Apprehensiveness and Anxiety than novice group. Personality traits were found to be unrelated to rifle performance among experienced firers; however, Among novice firers, however, confidence in ability manysmanship proficiency, and whether these relationships differ among novice and experienced The study sought to determine whether personality performance among novice firers. It is suggested that experience with weapons protect against was related to a number of personality traits. firers. Experienced group scored higher in Emotional Maturity, Dominance, several traits were found to be related to Anxiety Scale) were related to their rifle personality traits affecting performance. attributes of USMA cadets (as measured by Cattel's 16 PF and Heineman Manifest

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(Author)

ZOMOS SEARCH CONTROL NO. CIVIL AEROMEDICAL INST OKLAHOMA CITY OKLA DDC REPORT BIBLIDGRAPHY AD- 620 72

3 PROBLEMS IN AIR TRAFFIC MANAGEMENT: VI. INTERACTION OF TRAINING-ENTRY AGE WITH INTELLECTUAL AND PERSONALITY CHARACTERISTICS OF AIR TRAFFIC CONTROL SPECIALISTS

Trites, David K. 65-21 JUL 65 14 MONITOR: FAA-AM

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Aerospace Medicine v35 n12 p1184-94 Dec 1964 (Copies not available to DDC or Clearinghouse customers). Available from CFSII as PB-168 322, HC\$1.00, MF\$0.50.

33 ESCRIPTORS: (*AIR TRAFFIC, MANAGEMENT PLANNING AND CONTROL), (*AIR TRAFFIC CONTROLLERS, PSYCHOLOGICAL TESTS), AGING(PHYSIOLOGY), APTITUDE TESTS, PERSONALITY, STUDENTS, EDUCATION, INTELLIGENCE TESTS, MEMORY(PSYCHOLOGY), PERFORMANCE(HUMAN), WORD DENTIFIERS: ARITHMETIC DESCRIPTORS: **ASSOCIATION**

relationships between the performance scores and age at entry into training revealed that: (1) older trainees had lower test scores than the younger trainees on tests of immediate memory and nonverbal abstract reasoning; (2) older trainees had higher test scores than younger trainees on tests of arithmetic and verbal ability; (3) in highly speeded aptitude tests, the type of test (e.g., arithmetic, spatial, vocabulary, etc.) apparently determined whether the older or younger trainees would have the higher scores; and (4) in the intellectually efficient, responsible, tolerant, concluded that the higher failure rate in the etc., than their younger classmates. It was administered a large number of aptitude and personality area, older trainees were more Controller Specialist (ATCS) trainees were Over 900 Enroute and Terminal Air Traffic personality tests. Examination of the

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

PENNSYLVANIA STATE UNIV UNIVERSITY PARK DEPT OF PSYCHOLOGY AD- 620 423

.MEASURES OF VERBAL FLUENCY AND PAIRED ASSOCIATE LEARNING: A PILOT STUDY.

3

Retention, and Recovery of Meaningful Materials, AUG 65 8P Cofer, Charles N. : DESCRIPTIVE NOTE: Technical rept. on Learning, Cofer, Charles N. ;

CONTRACT: Non-65630 PROJ: NR154 161

UNCLASSIFIED REPORT

NOTE: SUPPLEMENTARY ESCRIPTORS: (*LEARNING, WORD ASSOCIATION), (*WORD ASSOCIATION, SELECTION), REASONING, VERBAL BEHAVIOR, PERSONALITY, PSYCHOLOGICAL TESTS DESCRIPTORS:

3

3 to the notion that fluency under conditions requiring response selection may be related to performance in verbal paired-associate learning. The p-word test scores produced a borderline significance value in relation to CVC pair learning scores, and the The results of the study give some limited support pair learning scores but not to word pair learning S-L test showed no relation to learning scores. The similar-words test showed a relation of CVC signfiicantly on word pair learning scores. The extreme groups on the p-word test differed Scores. (Author)

PAGE

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new and different material, and by the requirements

accounted for by age-related deficiencies in non-

training of older individuals could be partially

to perform their job tasks rapidly and accurately. verbal abstract reasoning, by immediate memory for

(Author)

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25

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 620 183

TUFTS UNIV MEDFORD MASS

3 THE MEASUREMENT OF CONFIDENCE AND TRUST.

DESCRIPTIVE NOTE: Technical rept. no. 8, Mar 64-Mar

Roby, Thornton B. ; Carterette, AF19 628 2450 ,Nonr49415 35P 92 reresa :

7682 CONTRACT: PROJ:

TASK: 768203

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-619 953.

33 DESCRIPTORS: (*DECISION MAKING, GROUP DYNAMICS), (*GROUP DYNAMICS, DECISION MAKING), ATTITUDES(PSYCHOLOGY), PROBABILITY, GAME THEORY, PSYCHOLOGICAL TESTS, DESCRIPTORS:

MATHEMATICAL ANALYSIS IDENTIFIERS: CONFIDENCE(PSYCHOLOGY)

for investigating the effects of social influence in a simple judgmental situation. The laboratory task The report is concerned with the development of a research methodology and a theoretical framework

displayed angle binary judgment as to whether a displayed angle departs from 90 degrees; before making his own response the subject is provided with the answer of a hypothetical partner, programmed at a certain fixed accuracy level. The responses are penalizes the subject for overstating or understating discrimination and the announced reliability of the variables in this study are the difficulty of the made in terms of a special betting scheme which his confidence. The two main experimental

to the effects of these variables on the relative hypothetical partner. Theoretical predictions as further methodological development is required to increase the realism of subjects' value of confidence measures are confirmed. confidence scores. (Author) However,

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 617 924

COLORADO UNIV BOULDER

3 EFFECTS OF PERSONALITY AND OWN STAND ON JUDGMENT AND PRODUCTION OF STATEMENTS ABOUT A CENTRAL ISSUE.

DESCRIPTIVE NOTE: Technical rept., 64 24P White, B. Jack ; Harvey, O.

TR-11 REPT. NO.

Nonr 114707

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Research done in cooperation with Utah Univ., Sait Lake City.

ESCRIPTORS: (*PERSONALITY, ATTITUDES(PSYCHOLOGY)), (*ATTITUDES(PSYCHOLOGY), PERSONALITY), SOCIAL PSYCHOLOGY, BEHAVIOR, GROUP DYNAMICS, RELIGION, PSYCHOLOGICAL TESTS, CORRELATION TECHNIQUES DESCRIPTORS:

3

extreme categories, number of categories used, width of gap in judgmental scale and the 'pro-ness' of the items produced. Own stand correlated -.17 with the and that some of the effects attributed to this variable in earlier studies could more appropriately tendency to use extreme categories, suggesting that this factor significantly influences judgmental activity only when it is highly extreme and intense position of own stand judged a series of statements personality groupings, differences in concreteness-abstractness, but not in authoritarianism or dogmatism, significantly affected the usage of dogmatism and concreteness-abstractness as well as according to their favorablesness-unfavorableness toward the Mormon religion and produced items of their own about the church. With effects of own stand controlled through matching of Ss within Pro-Mormon Ss who varied in authoritarianism,

3

be ascribed to variations in personality.

(Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 616 455
NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO
CALIF

DETERMINANTS OF RELIABILITY IN PERSONALITY RATINGS,

65 6P Gunderson, E. K. Eric PROJ: MR005 12 2004

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Journal of Clinical Psychology v21 n2 p164-9 Apr 1965 (Copies not available to DDC or Clearinghouse customers).

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS),
PROJECTIVE TECHNIQUES, RELIABILITY, EFFECTIVENESS,
ADJUSTMENT(PSYCHOLOGY), CORRELATION TECHNIQUES, ANALYSIS
OF VARIANCE, PERSONNEL, POLAR REGIONS, SELECTION (U)

Thirty-five clinician teams rated approximately 700 volunteers for Antarctic service on a set of personality traits and global adjustment predictions. The effects of variations in professional experience and idiosyncracies of clinicians' rating patterns upon inter-rater reliabilities were determined. Similarity of professional experience favorability of ratings, deviation from modal rating profiles, and agreement on the relevance of personality traits for the assignment were found to be related to interrater agreement. However, a fuller understanding of clinician agreement would appear to depend upon investigation of trait meanings and processes of cue selection, evaluation, and combination. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 616 148 NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO CALIF THE RELIABILITY OF PERSONALITY RATINGS UNDER VARIED ASSESSMENT CONDITIONS, (U)

65 4P Gunderson, E. K. Eric PROJ: MR005 12 2004 TASK: 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Journal of Clinical Psychology v21 n2 p161-4 Apr 65 (Copies not available to DDC or Clearinghouse customers).

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, RELIABILITY), ADJUSTMENT(PSYCHOLOGY), NAVAL PERSONNEL, PROJECTIVE TECHNIQUES, BEHAVIOR, POLAR REGIONS, MEDICAL PERSONNE (U)

3 experimental studies of the reliability of personality ratings should lead to better understanding of differences in clinicians' reactions judges were generally significant, but uniformly low indicating that the judges could not agree with high methods of clinical appraisal affected reliability, working relationship. Pearson correlations between favorability, and variance of clinical judgments. The presence or absence of a previous professional working relationship between clinicians did not consistency in evaluating specific personality attributes. Results indicated that differences in to behavioral cues and hence to better control of personality traits. Assessment conditions varied in terms of similarity-dissimilarity of clinical Pairs of clinical judges examined 719 Navy men methods and prior experience in a professional appear to influence agreement. Further quasiand independently rated them on a series of clinical rating methods. (Author)

24

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PAGE

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 611 989 MANITOBA UNIV WINNIPEG PERSONALITY FACTORS IN THE SELECTION OF CIVILIANS FOR ISOLATED NORTHERN STATIONS,

JAN 62 6P Wright, Morgan W. ; Sisler George C. ; Chylinski, Joanne ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Journal of Applied Psychology (U.S.) v47 n1 p24-9 1963 (Copies not available to DDC or Clearinghouse customers).

DESCRIPTORS: (*CIVILIAN PERSONNEL, SELECTION),
(*PERSONALITY, PSYCHOLOGICAL TESTS), (*ADJUSTMENT
(PSYCHOLOGY), ARCTIC REGIONS), APTITUDE TESTS, APPLIED
PSYCHOLOGY, ELECTRONIC TECHNICIANS, CANADA, CORRECTIONS,
CORRELATION TECHNIQUES
(U)
IDENTIFIERS: PERSONNEL SCREENING TESTS
(U)

An investigation of personality characteristics associated with favorable adjustment to northern isolated living, and the usefulness of psychological tests in the selectron of personnel for northern posting. 197 electronic technicians already screened on other psychological tests completed MMPI. Edwards Personal and Brainard Preference tests, and General Information and Arctic Interest questionnaires prior to 1 year of isolation duty on the Mid-Canada Line. Adequacy of work and social adjustment was associated with 11 of 35 test variables and 3 of 26 questionnaire items. The discriminating function of the MMPI was reduced by the use of the K correction. It was suggested that despite the highly select nature of the sample used, the test battery has potential value in the selection of civilians to work in the far north. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 609 032 ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D

FACTOR ANALYSIS OF EXPERIMENTAL NONCOGNITIVE MEASURES

OF COMBAT POTENTIAL,

3

DESCRIPTIVE NOTE: Technical research note,
JUN 64 39P Johnson, C. D. : Waters, L. : Helme, W. H. :

REPT. NO. APRO-TRN-147 PROJ: DA-2-J-024701-A-722

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ARMY PERSONNEL, PSYCHOLOGICAL TESTS),
(*PSYCHOLOGICAL TESTS, ARMY PERSONNEL), (*FACTOR
ANALYSIS, ARMY PERSONNEL), PERSONALITY, APTITUDE TESTS,
LEADERSHIP, EMOTIONS, STABILITY, MOTIVATION,
ATTITUDES(PSYCHOLOGY), STRESS (PSYCHOLOGY), PERFORMANCE
(HUMAN), SELECTION, CORRELATION TECHNIQUES, WARFARE (U)

combat ratings placed greater emphasis on leadership second was somewhat less valid in the cross sample. individual's overall competence and readiness to do criteria-peer and supervisor ratings on combat potential obtained after 16 weeks of AIT and in an overseas maneuver situation after one year. and emotional stability under stress. Results have been applied as a conceptual framework for the ACB, and one experimental perceptual speed measure avocational information, 7 cognitive tests of the The two factors valid in the peacetime structure stood up well in an independent sample while the his job and work for group goals, whereas actual development of experimental tests to measure the factors identified. (Author) criterion of combat potential. The first factor were factor-analyzed. Results were extended to appeared to reflect ratings based more on the As a means of identifying personality factors mechanical-social factor--were valid for the Comparison was made with a similar study in Korean combat sample. Two of eight factors identified--general cognitive ability and a important in combat potential, scores on 19 noncognitive aptitude tests, 5 measures of

SEARCH CONTROL NO.

DDC REPORT BIBLIDGRAPHY

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY ZOMOS

UNCLASSIFIED

COLORADO UNIV BOULDER AD- 608 122

CONCEPT FORMATION AND ATTAINMENT AS A FUNCTION OF

3

APPLICATION OF A PSYCHOMETRIC-CLINICAL APPROACH TO

PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PERSONNEL SELECTION FOR COUNTERINSURGENCY DUTY:

OCT 64 16P Cantrell, George K.; Holdrege, Fred E.; DeGaugh, Roy A.; Mullins,

Technical rept.,

DESCRIPTIVE NOTE:

PERSONALITY ORGANIZATION.

3

DESCRIPTIVE NOTE: Technical rept. no. 10,

CONTRACT:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

This study investigated differences that occured in concept formation and concept attainment between groups of subjects which were classified into the four systems of conceptual functioning proposed by Harvey et al. (1961). There were ten subjects in each system. The concept formation task involved the sorting of instances into meaningful classes or categories. The concept attainment task (Bruner et al., 1956) involved discovering the defining attributes of the instances included in a instances for testing, (8) basis for guesses, and (9) the use of inappropriate concepts. Thus in solving each problem, (4) ratio of guesses to total number of steps, (5) effect of the shift of cards tested, (3) total number of steps taken time required to solve each problem, (2) number The concept attainment task was scored for (1) concepts, and (4) appropriateness of concepts. informational redundancy in the selection of category specified by the experimenter. The completion, (2) repetition, (3) novelty of concept formation task was scored for (1) from the ordered stimulus display, (6) orientation toward the problems, (7)

Felknor, Catherine M. ; harvey, Nonr1147 07 346 43

DESCRIPTORS:

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, PERSONALITY), (*PROJECTIVE TECHNIQUES, PSYCHOLOGICAL TESTS), PERFORMANCE(HUMAN)

3

UNCLASSIFIED REPORT TR64 24

TASK: 771707 MONITOR: PRL

Cecil J. : PROJ: 7717 SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COUNTERINSURGENCY, PERSONNEL MANAGEMENT), (*MILITARY PERSONNEL, COUNTERINSURGENCY), (*PSYCHOLOGICAL TESTS, COUNTERINSURGENCY), PERFORMANCE (HUMAN), PERFORMANCE (HUMAN), MEDICAL PERSONNEL, MILITARY PSYCHOLOGY, PERSONALITY, ATTITUDES(PSYCHOLOGY), TESTS, APTITUDE TESTS, ABNORMAL PSYCHOLOGY, MILITARY REQUIREMENTS

Volunteers for assignment to counterinsurgency duty

were screened by a combination of psychological tests candidates and as a criterion for validating test and measures of aptitude, ability, personality, attitude, phases an assessment score was obtained by combining clinical psychologist, and a personnel psychologist. final products were 2 screening batteries that might regression analyses, variables not contributing to prediction of the criterion were eliminated. The the ratings of 3 interviewers: a psychiatrist, a interests, and biographical data. In the initial This team rating was used both for selection of and interview assessments. The tests included be field-administered and scored: an officer personal data variables. Through successive

26

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each task was scored on both qualitative and

quantitative measures.

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selection battery and an airman selection battery.

57

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ZOMOS SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

AD- 605 752

DUKE UNIV DURHAM N C

THE DECISION TO PARTICIPATE IN SMALL GROUPS EXPERIMENTS: PATTERNS OF SELF-DISCLOSURE AND THE VOLUNTEER.

3

DESCRIPTIVE NOTE: Technical rept. no. 14, Hood, Thomas ; CONTRACT: Nonr1181 11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ESCRIPTORS: (*PERSONALITY, SOCIAL PSYCHOLOGY), (*SOCIAL PSYCHOLOGY, PERSONALITY), BEHAVIOR, MALES, FEMALES, PSYCHOLOGICAL TESTS, GROUP DYNAMICS, SOCIOMETRICS, MOTIVATION, ANALYSIS OF VARIANCE (U) DESCRIPTORS:

3 actually strive to aid the experimenter in confirming his hypothesis. All of these observations raise volunteering are known, then measures of control can attempts to understand the volunteering process and and Orne all note that the subject may respond to cues or other than the variables manipulated in the trys to influence the results of the experiment invalid. The first argument is that the volunteers under observation or to be an informed participant Second, the volunteer is thought to have certain characteristics which interact with the variables laboratory experiments. These doubts have led to psychology are critized as unrepresentative or according to his own ideas. Criswell, Riecken doubts about the use of volunteer subjects in to attempt to discover the characteristics of unconventionality anxiety, adjustment, social often used are a special kind of population. extraversion, need achievement, autonomy and experiment. Orne suggests that subjects may The results of laboratory studies in social be instituted when volunteers are used in intelligence are related to volunteering. volunteers. If the variables that effect experiments. Studies suggest that

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

ARMY PERSONNEL RESEARCH OFFICE WASHINGTON D AD- 605 281

Research to Improve Enlisted Classification Techniques,

3

Helme, William PROJ: DA-2-J-024701-A-722 JUN 64 1V REPT. NO. APRO-TRR-1137

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on New Classification Techniques.

3 3 DESCRIPTORS: (*ARMY PERSONNEL, SELECTION), (*APTITUDE TESTS, ARMY PERSONNEL), TEST CONSTRUCTION (PSYCHOLOGY), ANTHROPOMETRY, PSYCHOLOGICAL TESTS, PHYSICAL FITNESS, PERSONNEL MANAGEMENT, ELECTRONIC TECHNICIANS, MAINTENANCE PERSONNEL, PERSONALITY, INTELLIGENCE TESTS, PERFORMANCE (HUMAN), CORRELATION TECHNIQUES, MILITARY (PROUISEMENTS, MILITARY PRAINING) CLERICAL PERSONNEL, PERSONNEL SCREENING IDENTIFIERS:

3 of combinations of tests which are the most effective maintenance and continued development of the aptitude developing physical proficiency measures to classify NEW CLASSIFICATION TECHNIQUES Task has been devoted substantially to improved measures for the Army Classification Battery (ACB) and identification developed and ready for comprehensive evaluation as differential predictors of success in occupational EM for combat and combat-support MOS with unusual area system of differential classification of enlisted men is reviewed. Research effort of the Research responsive to the Army requirement for Clerical job areas; three information tests for Construction and Mechanical-Electrical jobs; areas and subareas. Additional Task objectives encompass (1) identifying potential career enlisted men; (2) screening and assignment of General Maintenance, Motor Maintenance, and enlisted men of relatively low ability, (3) physical demands. New Classification tests aptitude and ability tests for Electronics, and personality-interest measures. (Author) potential components of the ACB include:

STANFORD UNIV CALIF

PERCEPTION OF LEADERSHIP IN SMALL GROUPS; A RANK ORDER INVESTIGATION OF THE EMERGENCE OF THE LEADERSHIP ROLE IN SMALL GROUPS.

3

DESCRIPTIVE NOTE: Technical rept. no. 9, JUL 64 13P Harrel, Thomas W. ; lee, Hans

CONTRACT: Nonr225 62 PROJ: NR171 388

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*LEADERSHIP, PERCEPTION (PSYCHOLOGY)), (*PERCEPTION (PSYCHOLOGY), LEADERSHIP), (*GROUP DYNAMICS, PSYCHOLOGICAL TESTS), SELECTION, SOCIAL PSYCHOLOGY, SOCIOMETRICS DESCRIPTORS:

3 To study the process wherby small groups come to identify one of their menbers as a leader and to investigate whether such emergent leadership could be predicted from a knowledge of other variables, 49 groups of either 4 or 5 men were assembled to discuss variables, 6 observational and sociometric variables, and 6 peer rating variables was computed. The of the group would you say stood out most definitely those subjects who received the highest rank in response to the sociometric question, 'Which member distribution of these ranks for each variable, for as leader in the discussion was contrasted with leadership question. The clearest reason that was leader was that they had a higher rate of interaction. Those who acted the most were the most likely to be judged to have been the leader. found to explain why men were designated as the the distribution on the same variable for those a human relations case. Within each group, the rank order of the men on 42 psychological test subjects who received the lowest rank to the

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO AD- 603 578 CALIF

BODY SIZE, SELF EVALUATION, AND MILITARY EFFECT IVENESS,

3

Gunderson, E. K. Eric REPT. NO. NMNRU-64-14 110 PROJ: MR005.12 JUL 64

UNCLASSIFIED REPORT

TASK: MR005.12.20

SUPPLEMENTARY NOTE:

3 (*PERFORMANCE (HUMAN), NAVAL PERSONNEL), (*NAVAL PERSONNEL), PERFORMANCE (HUMAN)), (*PSYCHOLOGICAL TESTS, NAVAL PERSONNEL), PERFORMANCE (HUMAN), EFFECTIVENESS, ADJUSTMENT (PSYCHOLOGY), ATTITUDES (PSYCHOLOGY), BEHAVIOR, SOCIAL PSYCHOLOGY, PSYCHOPHYSIOLOGY, CORRELATION TECHNIQUES, BODY WEIGHT, INTELLIGENCE TES DESCRIPTORS: (*PERSONALITY, NAVAL PERSONNEL),

have an effect upon military performance except at the extremes. Very short and overweight individuals tended to be both unhappy with themselves intellectual level generally varied inversely with intelligence, although within a wide range of GCT evaluations generally. ShortUnderweight and Short-Overweight groups had the most unfavorable self-images. Neither height nor weight seemed to directly with deviation from preferred (ideal) scores no relationship was present. Height appeared to have a pervasive effect upon self dissatisfaction with height and weight varied In a population on young, healthy Navy men height and weight. Dissatisfaction with and ineffective in performance. (Author)

SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

LLINDIS UNIV URBANA GROUP EFFECTIVENESS RESEARCH AD- 601 630

RELATIONS BETWEEN TASK AND INTERPERSONAL SUCCESS AND GROUP MEMBER ADJUSTMENT.

Bishop, Doyle W. ; DESCRIPTIVE NOTE: Technical rept. no. 18, CONTRACT: DA49 193MD2060 49P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ESCRIPTORS: (*GROUP DYNAMICS, EFFECTIVENESS), (*ADJUSTMENT (PSYCHOLOGY), (*SOCIOMETRICS), PROJECTIVE TECHNIQUES, PERSONALITY, BEHAVIOR, STRESS (PSYCHOLOGY), PERCEPTION (PSYCHOLOGY), PERFORMANCE (HUMAN) DESCRIPTORS:

subjects were observed by a high-ranking superior and adjustment of persons identified as task-oriented was success were more satisfied with group membership and did members who experienced any of these forms of low perceived the group atmosphere as more pleasant than an internal stress condition where members discussed interpersonal relations and success on an assigned group task were positively related to the adjustment results showed that members who experienced either primarily related to task success and whether the a problem that was relevant to their differential statuses. The study also investigated whether the or (2) high subjective or objective interpersonal (1) high subjective or experimental task success told that they had done relatively poorly on the task. Interpersonal success was also defined in three ways: (1) subjectively, the member's ratings of how well he was able to work with the other group members, (2) objectively, the esteem members, and (3) experimentally, the control vs. three ways: (1) subjectively, the member's rating of perceived success on the task, (2) objectively, independent judges' ratings of the group's product, and (3) experimentally, a control vs. an external stress condition where which each member received from the other group primarily related to interpersonal success. The adjustment of interaction-oriented persons was of group members. Task success was defined in This study investigated whether success in success. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AD- 601 412

VANDERBILT UNIV NASHVILLE TENN

THE RELATION OF SELF-ESTEEM TO INDICES OF PERCEIVED BEHAVIORAL HOSTILITY.

3

Wayne, Stanley R. ; DESCRIPTIVE NOTE: Technical rept. no. CONTRACT: Nonr2149 03 18P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 *ATTITUDES(PSYCHOLOGY), PSYCHOLOGICAL TESTS, EMOTIONS, SOCIAL PSYCHOLOGY), PSYCHOLOGICAL TESTS, EMOTIONS, SOCIAL PSYCHOLOGY), ABNORMAL PSYCHOLOGY, TEST METHODS, PERSONALITY, ANALYSIS DESCRIPTORS:

3 hypothesis applied to hostile actions and emotions in interpersonal behavior and to perceived hostile actions in the test situation as these were associated with lower degrees of self-esteem. esteem with two measures of hostility, one a behavior self-esteem was related to a rejection of socially unacceptable and injurious expressions of hostility for six subvarieties, two dimensions and one global aspect of hostility. The negative self-esteem-rating index, the other a picture description technique. With 100 subjects, scores were obtained relationship between self-esteem and hostility was upon the self-esteem measure, hostility instrument hostility relationship was found to be contingent but also to an increased availability of hostile tested by intercorrelating two measures of self-Hostile emotions in the test situation, however, were associated with higher self-esteem. Thus and dimension of hostility. The Sullivanian The Sullivanian hypothesis of a negative emotions. (Author)

PAGE

VANDERBILT UNIV NASHVILLE TENN

EFFECTS OF AFFECTIVE PICTURE STIMULI ON THE LEARNING. PERCEPTION, AND AFFECTIVE SCALE VALUES OF PREVIOUSLY NEUTRAL WORDS.

DESCRIPTIVE NOTE: Technical rept. no. 19, NOV 63 24P Izard, Carroll E.; Livsey, William ; Cherry, Eugene ; Hall, Gordon ; Wall, Nonr2149 03 Patricia : CONTRACT:

UNCLASSIFIED REPORT

NOTE: SUPPLEMENTARY DESCRIPTORS: (*WORD ASSOCIATION, LEARNING), (*PERCEPTION, VERBAL BEHAVIOR), (*LEARNING, VISUAL PERCEPTION), (*PICTURES, REACTION (PSYCHOLOGY)), **EMOTIONS**

3

3 to An attempt was made to study the differential effect of positive and negative affect with degree affective-arousal equated for the two conditions. The basic procedure was a paired associates learning task, in which affective picture stimuliwere associated with neutral words.

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

PITTSBURGH UNIV PA AD- 600 296

3 DIFFERENTIAL RESPONSE TO APPRAISAL AND GOAL SETTING AS A FUNCTION OF SELF, INTERACTION AND TASK ORIENTATION.

Bass, Bernard M. DESCRIPTIVE NOTE: Technical rept. 3, CONTRACT: Non-624 14 18P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONALITY, STUDENTS), (*MOTIVATION, PERSONALITY), (*ATTITUDES(PSYCHOLOGY), GROUP DYNAMICS), PSYCHOLOGICAL TESTS, REACTION (PSYCHOLOGY), BEHAVIOR

3 appraising past performance or to setting future goals. Generally, self-oriented students were significantly less likely to agree with their counselors as to what had been discussed in counseling and to particularly favor past performance appraisal over future goal setting. (See also peer from the other half. The counselees were the men most extreme in scores in self, interaction or task-orientation. The counselors were the remaining men. Counseling was devoted either to weeks in training groups. Midway, half of the men were counseled individually 1 to 1 1/2 hours by a Sixty graduate students met periodically for 15 AD-408 128). (Author)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 483 626 5/10 WASHINGTON UNIV SEATTLE MEASUREMENT OF PERSONALITY DIMENSIONS. PART IV. EXPERIMENTAL APPLICATIONS. SECTION B.

3

MAY 66 166P Horst, Paul ; CONTRACT: Nonr-477(33), PHS-MH-00743-10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 4, Section A, AD-482 682. DESCRIPTORS: (*PERSONALITY, *PSYCHOLOGICAL TESTS),
TABLES(DATA), FACTOR ANALYSIS, TEST
CONSTRUCTION(PSYCHOLOGY), MATRICES(MATHEMATICS), TEST
METHODS, NUMERICAL METHODS AND PROCEDURES
IDENTIFIERS: EIGENVECTORS
(U)

This is one part of a four-part series of reports. These reports are based on a new method for factoring a data matrix of order up to 3000 x 3000. The method is applicable to data matrices in general and should have applications in a wide range of multivariate analysis and prediction problems. These reports are specifically oriented toward the use of the techniques in the measurement of personality measurement of personality dimensions. It is probable that the work in this area has suffered more than other areas of psychology because adequate techniques were not available for the analysis of very large data matrices. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 482 682 5/10 WASHINGTON UNIV SEATTLE MEASUREMENT OF PERSONALITY DIMENSIONS. PART IV. EXPERIMENTAL APPLICATIONS. SECTION A.

3

MAY 66 168P Horst, Paul ; CONTRACT: Nonr-477(33) ,PHR-MH00743-10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 3, AD-482 681.

DESCRIPTORS: (*PERSONALITY, *PSYCHOLOGICAL TESTS), FACTOR ANALYSIS, TEST CONSTRUCTION(PSYCHOLOGY), MATHEMATICAL ANALYSIS, MATRICES(MATHEMATICS), COMPUTER PROGRAMMING, STATISTICAL ANALYSIS, DATA, CORRELATION TECHNIQUES

Contents: Experimental Data and Summary; Rational Scale Results; and Factor Scale Results.

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

MASHINGTON UNIV SEATTLE

MEASUREMENT OF PERSONALITY DIMENSIONS. PART II. SPECIAL PROBLEMS.

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CONTRACT: PHS-MH-00743-10 , Nonr-477(33) Horst, Paul ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 1, AD-481 142.

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, PERSONALITY), (*PERSONALITY), (*PERSONALITY), (*PERSONALITY), SCALE, ACHIEVEMENT TESTS, PERFORMANCE(HUMAN), SOCIAL PSYCHOLOGY, ACCEPTABILITY, PROBLEM SOLVING, MEMORY DEVICES, REACTION(PSYCHOLOGY), RESPONSE, RELIABILITY, DETERMINATION, DATA ACTOR ANALYSIS, MATRICES(MATHEMATICS), COMPUTER PROGRAMMING (U) IDENTIFIERS: FORTRAN, SCALING, SELF APPRAISAL (U)

Measurement of personality dimensions part 2. special problems.

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

MASHINGTON UNIV SEATTLE

MEASUREMENT OF PERSONALITY DIMENSIONS. PART I. PSYCHOLOGICAL MEASUREMENT,

3

MAY 65 140P Horst, Paul; CONTRACT: Nonr-477(33), PHS-MH-00743-10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 2, AD-481 143.

33 DESCRIPTORS: (*PSYCHOLOGICAL TESTS, PERSONALITY),
(*PERSONALITY, MEASUREMENT), (*PSYCHOLOGY, PERSONALITY),
TEST CONSTRUCTION(PSYCHOLOGY), VERBAL BEHAVIOR, DATA,
BACKGROUND, SCALE, FATTOR ANALYSIS,
MATRICES(MATHEMATICS), ACHIEVEMENT TESTS,
PERFORMANCE(HUMAN), COMPUTER PROGRAMMING,
ADJUSTMENT(PSYCHOLOGY), REACTION(PSYCHOLOGY), RESPONSE,
ATTITUDES(PSYCHOLOGY), BEHAVIOR, EMOTIONS, FEAR
(LIDENTIFIERS: FORTRAN, SCALING, SELF APPRAISAL

general and should have applications in a wide range suffered more than other areas of psychology because adequate techniques were not available for the factoring a data matrix of order up to 3000 \times 3000. The method is applicable to data matrices in These reports are specifically oriented toward the Dersonality measurement of personality dimensions. This is one part of a four-part series of reports. of multivariate analysis and prediction problems. analysis of very large data matrices. (Author) It is probable that the work in this area has use of the techniques in the measurement of These reports are based on a new method for

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ZOWOZ SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

- 480 892 5/10 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF P

RECORD EXAMINATION AND CERTAIN PERSONALITY OR INTEREST TESTS IN PREDICTING ACADEMIC PERFORMANCE IN THE MANAGEMENT CURRICULUM OF THE UNITED STATES NAVAL AN INVESTIGATION OF THE VALIDITY OF THE GRADUATE POSTGRADUATE SCHOOL,

Dreese , Richard N. ; Russell, 62P 64 William M.

UNCLASSIFIED REPORT

3 (*MANAGEMENT ENGINEERING, NAVAL TRAINING), APTITUDE TESTS, PERSONALITY, STUDENTS, MATHEMATICAL PREDICTION, SELECTION, CLASSIFICATION, STATISTICAL ANALYSIS, PSYCHOLOGICAL TESTS, PERFORMANCE(HUMAN), RECORDS (L (*PERFORMANCE(HUMAN), EFFECTIVENESS), DESCRIPTORS:

predictor of academic performance and indicate that neither the Structured Objective Rorschach Certain aptitude and personality tests were given to the 1964 Management Curriculum military officer students of the U. S. Naval Postgraduate academic grades received during the first three School and the scores were correlated with the student selection for future classes. (Author) Examination be administered to candidates for Management Curriculum and that Selection Boards be advised of the results to assist in terms. The results obtained confirm that the performance in the Management Curriculum. It Graduate Record Examination is an excellent Values are useful predictors of academic is recommended that the Graduate Record Test or Allport-Vernon-Lindzey Study of

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

A PROCEDURE FOR REDUCING THE EFFECTS OF SLANTING NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

QUESTIONNAIRE RESPONSES TOWARD SOCIAL ACCEPTABILITY.

3

Voas, Robert B. NM001-108-100-17 Research rept., 99 REPT. NO. NSAM-215 DESCRIPTIVE NOTE: NAVMED 26 SEP MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

(*PERSONALITY, MEASUREMENT), (*TEST (*PERSONALITY, MEASUREMENT), (*TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY), SOCIAL COMMUNICATION, ANALYSIS OF VARIANCE, GROUP DYNAMICS, ATTITUDES(PSYCHOLOGY), ACCEPTABILITY, APPLIED FAKING PSYCHOLOGY DENTIFIERS: DESCRIPTORS:

33

socially acceptable responses were significantly less biased towards acceptability in 13 of the 24 scales cadets by a method in which both socially acceptable self-descriptions appeared to reduce the bias in the than were the scores of controls who received these allowing Ss to give acceptable answers along with Inventory were administered to naval aviation continuously. Self-descriptions obtained with inventories under normal conditions. Thus, and selfdescriptive answers were obtained The Guilford-Zimmerman Temperament Survey and Minnesota Multiphasic Personality atter. (Author)

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

DISCRIMINATING BETWEEN NAVAL AVIATION CADETS OF THE SIGNIFICANCE OF ATTITUDES TOWARD PEERS IN 'HIGH' AND 'LOW' MOTIVATION.

3

DESCRIPTIVE NOTE: Research rept., Aug 52 21P Bair, John T. ;Hollander,

NM001-058.05.04, NAVMED MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

33 (*MOTIVATION, GROUP DYNAMICS), PILOTS, NAVAL TRAINING, MEASUREMENT, ATTITUDES(PSYCHOLOGY), PROJECTIVE TECHNIQUES, PERSONALITY, EMOTIONS, SELECTION, STATISTICAL ANALYSIS DESCRIPTORS:

complete an open-ended questionnaire which instructed that they evaluate anonymously the characteristics of their 'best' and 'worst' fellow cadets. Specific content categories were determined and checked for successfully completed Basic Flight Training, and the 'low' group included 72 cadets who left the program voluntarily. Both groups were required to revealed that the 'high' motivation group appraised personal and social factors of their fellow cadets attitudes toward peers that differentiated between cadets of 'high' and 'low' motivation. The 'high' motivation group consisted of 65 cadets who reliability by independent observers. The results This investigation reports the significance of

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA AD- 468

3 A NOTE ON THE EFFECT OF TEST SET ON THE ROSENZWEIG PICTURE-FRUSTRATION TEST,

Wallon, Edward J. : Webb, NMO01-108-100-19 35 MONITOR: NAVMED 26 Wilse B. : NOV

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

TECHNIQUES), (*PERSONALITY, TEST
CONSTRUCTION(PSYCHOLOGY)), DECISION MAKING,
REACTION(PSYCHOLOGY), ANALYSIS OF VARIANCE, EXPERIMENTAL
DATA, SOCIAL PSYCHOLOGY, TEST METHODS
(LIENTIFIERS: FAKING, SOCIAL ACCEPTABILITY (*PSYCHOLOGICAL TESTS, PROJECTIVE DESCRIPTORS:

This paper reports a test of the amenability of one

3 Rosenzweig test is quite amenable to the set of the subject taking the test. In four of the six scales significant differences in mean responses were for this projective test at least the fact that it is a projection technique does not eliminate the possibility of subjects biasing their results in of the more common projective tests, the Picture-Frustration Test, to a 'set' to give a particular type of response. The results indicate that the obtained between the two groups. It is clear that favorable directions. (Author)

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with significantly greater frequency. In contrast, the 'low' motivation group described academic values more frequently. Implications for a counseling

program are included. (Author)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 468 191

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

CORRELATES OF READING SPEED AND THE TIME REQUIRED TO

COMPLETE PERSONALITY INVENTORIES.
DESCRIPTIVE NOTE: Research rept.,

DESCRIPTIVE NOTE: Research rept.,
JUN 56 7P Voas, Robert B.
MONITOR: NAVMED NM001-j08-100-16

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*READING, TIME STUDIES), (*PERSONALITY, PSYCHOLOGICAL TESTS), TEST CONSTRUCTION(PSYCHOLOGY), PERCEPTION(PSYCHOLOGY), CORRELATION TECHNIQUES, ATTENTION, MOTIVATION, EMOTIONS (U)

260 NAVAL CADETS WERE TIMED WITHOUT THEIR KNOWLEDGE WHILE TAKING THE Minnesota Multiphasic Personality Inventory and Guilford-Zimmerman Temperament Survey. The time required to complete the MMPI was cornelated .72 with the time required to complete the GZTS. This working time was found to be related primarily to reading speed and intelligence. Small but significant correlations were obtained between reading speed and several MMPI and GZTS scales. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 467 983

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA VALIDITY OF PERSONALITY INVENTORIES IN THE NAVAL

VALIDITY OF PERSONALITY INVENTORIES IN THE NAVAL AVIATION SELECTION PROGRAM.

3

DESCRIPTIVE NOTE: Research rept.,
NOV 57 37P Voas, Robert B.; Bair, John
T.; Ambler, Rosalie K.;
MONITOR: NAVMED NM-16-01-11-1-R13,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONALITY TESTS, NAVAL AVIATION), NAVAL PERSONNEL, SELECTION, NAVAL TRAINING, ATTRITION, MILITARY PSYCHOLOGY, FEAR, PSYCHOLOGICAL TESTS, PERSONALITY PSYCHOLOGY, FEAR, PSYCHOLOGICAL TESTS, (U) IDENTIFIERS: VALIDATION

Various scales from the Minnesota Multiphasic Personality Inventory (MMPI) correlated significantly with the military adjustment criteria. However, the MMPI is not recommended as a useful screening device because these validity coefficients are low. Furthermore, it is too long: it is fakeable; and the type of attrition which it predicts occurs in pre-flight and is not very costly to the navy. It is suggested that a shorter scale, used in conjuntion with other selection tests, might prove selection ratio could be used. Corroborative

findings were obtained for the scales of the Gull ford Zimmerman Temperament Survey (GZIS). Neither the MMPI or the GZIS correlated significantly with the 'fear of flying' criterior taken from a large sample of cadets. The Taylor Manifest Anxiety Scale (TMA) and the Saslow Sreening Test (SST) demonstrated concurrent validity but not predictive validity with the Fear criterion. It appears, therefore, that the Specific fear of flying conditioned a more generalized anxiety to which the TMA and SST were sensitive, rather than pre-existent anxiety determining the later fear reactions. The Heineman Manifest Anxiety Scale (HMA) was administered three successive times to the same cadets upon entering training.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 467 968 NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA CORRELATIONS BETWEEN DYNAMIC VISUAL ACULTY AND PERSONALITY TESTS.

3

DESCRIPTIVE NOTE: Research rept.,
MAR 55 3P DERivera, Joseph H.; Webb

MONITOR: NAVMED NM--1-109-107.01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*VISUAL PERCEPTION, TRACKING), ANALYSIS OF VARIANCE, PILOTS, AVIATION MEDICINE, ATTITUDES(PSYCHOLOGY), PERSONALITY, LEARNING, APTITUDE TESTS, CORRELATION TECHNIQUES, PSYCHOPHYSIOLOGY, MOTIVATION, INTELLIGENCE TESTS (U)

Wide individual differences among entering naval aviation cadets in the ability to visually track rapidly-moving objects have been reported. Conjecture as to the reason for this phenomenon is presented in this report. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 467 964 NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA THE EFFECT OF NON-SCORED ITEMS AND RETESTING ON THE TAYLOR MANIFEST ANXIETY SCALE. (U)

DESCRIPTIVE NOTE: Research rept.,
MAR 55 4P Voas, Robert B.;
MONITOR: NAVMED NM-001-108-100-10,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), (*PSYCHOLOGICAL TESTS, ANXIETY), TEST CONSTRUCTION(PSYCHOLOGY), TEST METHODS, STATISTICAL ANALYSIS, FATIGUE(PHYSIOLOGY), CORRELATION TECHNIQUES, MEASUREMENT, ANALYSIS

The Minnesota Multiphasic Personality
Inventory (MMPI Form) and the 50 items of the
Taylor scale without filler items (Short
Form) were administered to six classes (total
Form) were administered to six classes (total
N = 353) of naval aviation cadets during their
first week of training at Pensacola. The present
results indicate that non-scored items do not
significantly effect the A scale scores, and,
therefore, the three forms of this scale should yield
comparable results. Further, the results show that
while the correlation between the first and second
administrations of this scale is high, caution should
be exercised in studies which require the repetition
not a random, but a consistent effect on the mean.
(Author)

ZOMOS DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

CHEMICAL RESEARCH AND DEVELOPMENT LABS EDGEWOOD ARSENAL AD- 466 017

3 PSYCHOMETRIC MEASURES. I. DETERMINING EQUIVALENCE OF FORMS. STANDARDIZATION STUDIES WITH THE REPETITIVE

DESCRIPTIVE NOTE: Rept. for Sep 64-Mar 65, Hart, James J. ;

JL 65 17P 40. CRDL-TM-2-17 1C522301A079 REPT. NO.

1C522301A07901 PROJ:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

STANDARDIZATION), (*PSYCHOLOGICAL TESTS, TEST CONSTRUCTION(PSYCHOLOGY)), STATISTICAL ANALYSIS, CORRELATION TECHNIQUES, TEST METHODS, SAMPLING, ANALYSIS OF VARIANCE, TRANSFER OF TRAINING (U) (*TEST CONSTRUCTION(PSYCHOLOGY), DESCRIPTORS:

ອີ The purpose of this study was to verify the finding of the authors of the Repetitive Psychometric Measures that the twenty forms of the Number Facility (NF) and Speed of Closure (SC) sub-tests were not of equivalent difficulty. Twenty subjects were given twenty forms of the NF and SC and twenty additional trials on of difficulty for forms from our samples correlated significantly with the sample of the authors of the test for the SC, but not for the NF. The reconstructed forms of the NF were not more equivalent than the original forms. Practical implications of these findings for the use of these reconstructed forms of the NF. The relative level sub-tests were discussed. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO AD- 440 133

3 VALUE AND PERSONALITY DIFFERENCES BETWEEN OFFENDERS CALIF

AND NONOFFENDERS,

Knapp, Robert R.

NMNRU-63-6 PROJ: MR005.12 63

MR005.12.22 TASK:

Reprint from Jnl. of Applied Psychology, 48:1,pp. 59-62, 1964. (Copies not supplied by DDC) SUPPLEMENTARY NOTE: UNCLASSIFIED REPORT

(*PERSONALITY, CRIMNOLOGY, SOCIAL COMMUNICATION), (*PERSONALITY, CRIMNOLOGY), (*ADJUSTMENT (PSYCHOLOGY), PSYCHOLOGICAL TESTS, NAVAL PERSONN L, TABLES(DATA), APPLIED PSYCHOLOGY, MOTIVATION, LEADERSHIP, SELECTION

33

California Psychological Inventory (CPI), the DF Opinion Survey, and a measure of 6 interpersonal values were administered to an offender and a nonoffender Navy enlisted sample to investit any differences in values held by these groups, independent of the usually discriminant variables of verbal aptitude and education. The CPI So scale, 3 scales from the DF Opinion Survey, and 2 scales from the measure of interpersonal values differentiated significantly between the 2 groups. characterized as having attitudes favorable toward regulations, and as being lower on a continuum of escapism and toward nonconformity to rules and The present Navy offender sample was The Socialization (So) scale of the

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socialization. (Author)

ZOMOS DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

NAVY MEDICAL NEUROPSYCHIATRIC RESEARCH UNIT SAN DIEGO AD- 432 091 CALIF

3 PAST EXPERIENCE, SELF EVALUATION, AND PRESENT ADJUSTMENT.

Gunderson, E. K. Eric ; Johnson, NO. NANRU-63-21 MR005.12 MR005.12.20 63 PROJ:

UNCLASSIFIED REPORT

SUPPLEMENTARY HOTE:

DESCRIPTORS: (*ADJUSTMENT (PSYCHOLOGY), PERSONALITY), (*PERSONALITY, ADJUSTMENT (PSYCHOLOGY)), (*ATTITUDES(PSYCHOLOGY), NAVAL PERSONNEL), PSYCHOLOGICAL TESTS, POPULATION, MEASUREMENT, PSYCHIATRY, CLASSIFICATION, BEHAVIOR, TABLES(DATA), INTELLIGENCE CLASSIFICATIONS, SOCIAL COMMUNICATION (U) IDENTIFIERS: SELF EVALUATION (U)

3 not correlate significantly with any of four military meaningful differentiation of attitudes toward self-than the global measures of body-cathexis and self-cathexis used previously. The self-evaluation measures correlated in the expected direction with relationships of these self evaluation measures to attitude measures of interpersonal maturity and delinquency proneness, positive self-regard being positively related to the Maturity Scale and negatively correlated with the Delinquency Scale. Self evaluation measures in a population of young healthy Navy men correlated significantly with a composite of biographical information reflecting family instability and conflict, incon sistent or Factor analysis of the self evaluation inventory yielded eight factors which provided a more adjustment probably are of low order in a normal With the exception of one factor-derived scale, Mork Attitude, the self evaluation measures did extreme disciplinary practices by parents, and persistent difficulties in school adjustment. adjustment criteria. It was inferred that the population or are not simple linear ones. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

AN EXPLORATORY INVESTIGATION OF THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY RESIGNATION FROM AVIATION TRAINING,

3

Green, Leonard R. MR005 13 5001 25 **6**P NAVMED MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*PERSONALITY, PSYCHOLOGICAL TESTS), (*ANXIETY, AVIATION PERSONNEL), (*ATTITUDES(PSYCHOLOGY), AVIATION PERSONNEL), (*MOTIVATION, AVIATION PERSONNEL), TRAINING, MILITARY TRAINING, AVIATION PERSONNEL, PSYCHOLOGICAL TESTS DESCRIPTORS:

3 and quitting than subjects who were still in the program a year after having taken the tests. There was a tendency for the subjects who were in the program the orientation than the subjects who were in the program for only one week at the time of testing. The ego-strength measure did no yield any significant who voluntarily withdrew from the program had higher mean score on the anxiety scale and had mean score indicating attitudes more accepting of the idea of ego-strength, anxiety, introversion-extraversion, attitudes toward quitting were studied for their relationships with voluntary withdrawal from the Naval Air Training Program. The subjects relationships with voluntary withdrawal from the The scores on four personality measures testing longest to express a more socially introverted training program. (Author)

68

PAGE

69

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

MIAMI UNIV CORAL GABLES FLA 418 342

3 PERSONALITY CORRELATES OF TWO KINDS OF CONFORMING BEHAVIOR.

McDavid, John M. 20 P 63 AUG

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ESCRIPTORS: (*PERSONALITY, MEASUREMENT), (*BEHAVIOR, MEASUREMENT), (*ADJUSTMENT, MOTIVATION), (*PSYCHOLOGICAL TESTS, PERSONALITY), PERCEPTION, CORRELATION TECHNIQUES, 33 DESCRIPTORS: MOTIVATION

REWARD DENTIFIERS:

personality correlates with conformity on each kind of task. Findings support the notion that both agreement-seeking and ''information-seeking.'' conformity in ambiguous situations (in which there is no clear external standard) is associated with 5 is associated with 'agreement-seeking,' whereas A correlational analysis of scores on the Edwards Personal Preference Schedule, the Gordon Survey of Interpersonal Values, the Guilford-Zimmerman Temperament Survey, and the Leary Interpersonal Adjective Check List, with conformity contradicts a clear external standard) conformity in well-defined situations (in which conforming behavior in a Crutchfield situation easily soluble, versus maximally ambiguous and two kinds of judgmental tasks (unambiguous and insoluble) revealed differential patterns of

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

AD- 410 775

A NOTE ON THE INTERPRETATION OF PSYCHOLOGICAL MILITARY ACADEMY WEST POINT N Y

DISTANCE: ASSUMED SIMILARITY BETWEEN OPPOSITES,

3

Gotthell, Edward; 4 P 8 A MONITOR:

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*MILITARY PERSONNEL, TRAINING), (*PERSONALITY), (*SOCIOMETRICS, MILITARY PERSONNEL), (*PERCEPTION, ATTITUDES(PSYCHOLOGY)), (*MILITARY TRAINING, PSYCHOLOGICAL TESTS), EFFECTIVENESS, MILITARY PSYCHOLOGY, SOCIAL COMMUNICATION, LEADERSHIP (U)

In a study of the effectiveness of squads of cadets undergoing field military training, one of the predictor measures used was the Assumed Similarity Between Opposites (ASO) score. In studies elsewhere this score has been found to be con sistently associated with group effectiveness in many different situations, but there has been question about the attributes of personality which it tapped. considered which appeared to be conceptually related related with other personality attributes, with the result that the interpreta tion of the ASO as to ASO, so their interre lationships were expected In this study a number of other variables were However, ASO was not found to be consistently to shed some light on the meaning of ASO. psychological distance seems questionable. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

VANDERBILT UNIV NASHVILLE TENN

THE PICTURE DESCRIPTION TEST: A PRELIMINARY REPORT,

Izard, Carroll E.; Randall, 9 APR

Don H.; Cherry, Eugene S.; REPT. NO. TR16 CONTRACT: Nonr214903

UNCLASSIFIED REPORT

UESCRIPTORS: *REACTION (PSYCHOLOGY), *PHO, *PERSONALITY, STIMULATION(PHYSIOLOGY), HEAD(ANATOMY), PHOTOGRAPHIC ANALYSIS, PSYCHOLOGICAL TESTS, EMOTIONS, VERBAL BEHAVIOR, PROJECTIVE TECHNIQUES, PERCEPTION. (U) IDENTIFIERS: FACIAL PHOTOGRAPHS, FACIAL

rather highly descriptive of the picture and three of affect were presented to a large number of sub jects each picture a set of eight or ten words selected by a few judges. Ss were asked to pick the most and an equal number that would be very infrequently frequently chosen as descriptive of a given picture sources of data a set of six words were derived for each of 56 pictures, three of which seemed to be descriptions of the pictures. These free responses obtained in written or oral form were studied for third most de scriptive, and then to pick the word deviations in the perceptual-affective response to descriptive word, the second most descriptive, the or judges with the request that they supply verbal considered as descriptive. A parallel step was to present a large number of pictures to 5s and with pressing varying degrees of positive and negative common denominators. In this way three, four, or five terms were derived which would be very that was not descriptive at all. From these two In the development of a technique for measuring pictures of people (Picture Description Test) (PDT) a wide variety of pictures of people ex which seemed to be characteristically nondescriptive. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

TEXAS CHRISTIAN UNIV FORT WORTH

INFORMATION PROCESSES IN INTERPERSONAL RELATIONSHIPS.

3

170 63

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CONTRACT: Non-406700 PROJ: NR170 478

Palmer, George d.;

UNCLASSIFIED REPORT

3 DESCRIPTORS: *PERCEPTION, PSYCHOLOGICAL TESTS, LEARNING, PROJECTIVE TECHNIQUES, PERSONALITY, APTITUDE TESTS, TEST METHODS, GROUP DYNAMICS.

associated with interpersonal knowledge, real similarity, and the psychological structure of groups, each member of a group completed multi plechoice, objective questionnaires according to his best knowledge of each other member, and for himself discrimination, which vary positively with dura tion knowledge and similarity which were obtained for 36 interpersonal learning are measurable proc esses of of interaction and similarity, negatively with size of group, and differentially with class of In trial studies of interpersonal relationships in self-description. Analysis of interpersonal psychotherapeutic groups in a mental hospital resulted in these conclusions. Inter personal to 7-man student teams in man agement gaming relationships identified in information and acquisition and relative interpersonal competition and for three, 8 patient information. (Author)

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AD- 405 626

Frederiksen, Norman ; EDUCATIONAL TESTING SERVICE PRINCETON N 60P

CONTRACT: Non-2338 00 PROJ: NR151 182

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ESCRIPTORS: *BEHAVIOR, *SCIEIFIC PERSON, SOCIOMETRICS, PJEVE USCOLOY TEHODS, TET ONSTRUCTION, PERSONALITY, ATTITUDES(PSYCHOLOGY), COR, SIMULATION, SELECTION. (U. DESCRIPTORS:

3 ministritrin thf federal gornment whoad als been given the Bureau of Business In-Basket Ttroup overlapped with a larger group of subjects who had provided data for a factor analysis of scores from the in-basket. The present study was to observe the correlations of in-basket scores with the ability in one of the instruments and that scores on a social desirability scale under certain conditus might be useful in a predictor battery. The results tend to establish the con struct validity of in-basket response set toward social desirability is operating obtained in the previous study. This was coomlised by estimating the correlations between in-basket scores and other variables for the larger group and then using a factor extension procedure to estimate loadings on the oblique primary factors and the second-order factors. Findings suggest that a Scores on tests of cognitive abilities, attitudes, interests, and personality and biographical in formation were obtained for a group of 115 ad and other measures and to estimate the factor loadings of the other measures on the factors Scores. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

ILLINGIS UNIV URBANA

THE MEASUREMENT OF INDIVIDUAL DIFFERENCES IN PERCEIVED PERSONALITY TRAIT RELATIONSHIPS AND THEIR RELATION TO CERTAIN DETERMINANTS

3

PEDERSEN, DARHL M.; CONTRACT: NONR183439 62 SEP

UNCLASSIFIED REPORT

UESCRIPTORS: *PERCEPTION, *PERSONALITY, CORRELATION TECHNIQUES, FACTOR ANALYSIS, IDENTIFICATION, PSYCHOLOGICAL TESTS, THEORY IDENTIFIERS: AUTHORITARIANISM, INDIVIDUAL DIFFERENCES

3 3

THE MEASUREMENT OF INDIVIDUAL DIFFERENCES IN PERCEIVED PERSONALITY TRAIT RELATIONSHIPS AND THEIR RELATION TO CERTAIN DETERMINANTS.

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PAGE

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

LD- 299 717 STANFORD UNIV CALIF PERCEPTION OF LEADERSHIP IN SMALL GROUPS

3

FEB 63 1V HARRELL, THOMAS W.; RICE, GEORGE H.

UNCLASSIFIED REPORT

DESCRIPTORS: *GROUP DYNAMICS, LEADERSHIP, PERCEPTION, PERSONALITY, PSYCHOLOGICAL TESTS, SOCIOMETRICS (U)

PERCEPTION OF LEADERSHIP IN SMALL GROUPS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 290 262 MIAMI UNIV CORAL GABLES FLA MOTIVATIONAL AND INCENTIVE FACTORS IN SOCIALLY INFLUENCED BEHAVIOR

3

OCT 62 1V MCDAVID, JOHN W.;

UNCLASSIFIED REPORT

DESCRIPTORS: *BEHAVIOR, ATTITUDES(PSYCHOLOGY),
PERSONALITY, PERSONALITY TESTS, SOCIAL COMMUNICATION (U)

Effort was directed toward the exploration of motivational factors underlying the occurrence of conforming behavior and their interactions with a variety of situational or conditional factors. A major conjunct goal of this researc is to clarify a distinction between two major processes in socially influenced behavior: (1) a normative or agreement-seeking process, and (2) an informational or information-seeking process. A large volume of data were collected for preliminary investigation of correlations between certain standard motivational and person-ALITY ASSESSMENT DEVICES AND EMPIRICAL LABORATORY MEASURES OF CONFORMING BEHAVIOR. One specific exploration of the relationship between particular motivational factors (achievement and affiliation motivation) and one situational factor (task difficulty or ambiguity) was completed. (Author)

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PAGE

73

PAGE

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

AD- 288 257

PRINCETON UNIV N J

3 THE MEASUREMENT OF FOUR SYSTEMS OF PERSONALITY STRUCTURE VARYING IN LEVEL OF ABSTRACTNESS. (SENTENCE COMPLETION METHOD) SCHRODER, H. M.; STREUFERT, SIEGFRIED; -

62

UNCLASSIFIED REPORT

3 DESCRIPTORS: *PERSONALITY, *PERSONALITY TESTS, TEST METHODS, THEORY

THE MEASUREMENT OF 4 SYSTEMS OF PERSONALITY STRUCTURE VARYING IN LEVEL OF ABSTRACTNESS.

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

TEXAS CHRISTIAN UNIV FORT WORTH AD- 286 517

3 MILITARY SMALL GROUP PERFORMANCE UNDER ISOLATION AND STRESS. CRITICAL REVIEW IV. SELECTION. INDOCTRINATION, AND TRAINING FOR ARCTIC REMOTE DUTY

SELLS, S.B.; JUN 62 1V REPT. NO. TDR62 34 CONTRACT: AF41 657 323

UNCLASSIFIED REPORT

DESCRIPTORS: *GROUP DYNAMICS, *MILITARY PSYCHOLOGY, ADJUSTMENT (PSYCHOLOGY), IDENTIFICATION, MILITARY TRAINING, PERSONALITY TESTS, SELECTION, STRESS (PSYCHOLOGY)
IDENTIFIERS: SMALL GROUPS DESCRIPTORS:

33

SELECTION, INDOCTRINATION, AND TRAINING FOR ARCTIC REMOTE DUTY. REDUCTION OF STRESS AT AC AND W SITES IN ALASKA. 28 REFERENCES.

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 285 184

MICHIGAN UNIV ANN ARBOR

VALIDATION OF PERSONALITY TESTS AS MEASURES OF TRAIT— (U)

APR 62 1V NORMAN, WARREN T.; CONTRACT: AF41 657 269

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY TESTS, *PSYCHOLOGICAL TESTS(U)

VALIDATION OF PERSONALITY TESTS AS MEASURES OF TRAIT-RATING FACTORS. THREE FORCED-CHOICE SELF-REPORT TESTS TO DEVELOP EMPIRICAL SCALES PREDICTIVE OF PEER-NOMINATION PERSONALITY RATINGS FROM THE SAME GROUPS. DETECTION KEYS FOR FAKED PERFORMANCES.

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

ND- 283 057

GEORGETOWN UNIV WASHINGTON D C

THE IDENTIFICATION OF YOUNG LADIES DIAGNOSED AS PERSONALITY AND CHARACTER DISORDERS, THROUGH THE USE OF THE PROVERBIAL ATTITUDES TEST (U)

AUG 62 1V ROHRER, JOHN H.;

UNCLASSIFIED REPORT

DESCRIPTORS: *ATTITUDES(PSYCHOLOGY), *PERSONALITY TESTS,
ANALYSIS, IDENTIFICATION, MILITARY PSYCHOLOGY, NAVAL
PERSONNEL, PERSONALITY, PSYCHIATRY, PSYCHOLOGICAL TESTS,
RECRUITING, FEMALES
(U)

Two forms of a Proverbs Test were developed that discriminated between young males who were diagnosed, using the 'Armed Forces
Nomenclature', as falling within the 'Character and Personality Disorders' category, and young men who did not receive such a diagnosis. To test the generality of the test for identifying the personality and character disorders, both forms of the test were ADMINISTERED TO A GROUP OF APPROXIMATELY 1,500 INCOMING WOMEN RECRUITS. There were 91 of these young ladies who were diagnosed as having personality and character disorders. This group made up the experimental group. The control group consisted of 508 young ladies, randomly selected from the remainder of the 1,500 recruits, who had not received the diagnosis of character and personality disorders. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIOGRAPHY

GEORGETOWN UNIV WASHINGTON D C 4D- 283 056

 $\widehat{\Xi}$ PSYCHO-SOCIAL DEVELOPMENTAL PHASES, THE PERSONALITY DISORDERS, AND THE PROVERBS TEST

ROHRER, JOHN H.; CONTRACT: NONR153007

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY TESTS, *PSYCHIATRY,
ATTITUDES(PSYCHOLOGY), DESIGN, GROWTH(PHYSIOLOGY),
IDENTIFICATION, PERSONALITY, PSYCHOLOGICAL TESTS, TEST
CONSTRUCTION (PSYCHOLOGY), THEORY
(L DESCRIPTORS:

to the theoretical structure from which they were derived. The empirically derived scores for items on the Proverbs Test were weighted to maximize the identification of individuals diagnosed as Character and Personality Disorders. These scores were related to the theoretical psychosocial phases derived from the writings of Erickson. The empirical derivation of the final test forms were based on the study of over 2,000 young men between the ages of 17 and 25. The two forms of the Proverbs Test are not equivalent forms. 3 The empirical Proverbs Test items are related

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

HARVARD UNIV CAMBRIDGE MASS AD- 282 532

3 DISPERSION ANALYSIS AND THE SEARCH FOR EDUCATIONAL GOALS IN COLLEGE: A STUDY IN DUPLICATE

COLE, JOSEPH W. : WILSON, KENNETH

TIEDEMAN, DAVID V.; REPT. NO. SICD 19TR16 CONTRACT: NONR186631

UNCLASSIFIED REPORT

DESCRIPTORS: *BEHAVIOR, *EDUCATION, *PERSONALITY, APTITUDE TESTS, DECISION MAKING, MEASUREMENT, PROBABILITY, SELECTION, STATISTICAL ANALYSIS, STATISTICAL TESTS, THEORY IDENTIFIERS: EDUCATIONAL PSYCHOLOGY DESCRIPTORS:

33

DISPERSION ANALYSIS AND THE SEARCH FOR EDUCATIONAL GOALS IN COLLEGE.

PAGE

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

HARVARD UNIV CAMBRIDGE MASS

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT

 Ξ

WALSTON, ERNEST B.;

SICD 21TR18 NONR186631 REPT. NO.

UNCLASSIFIED REPORT

33 *APTITUDE TESTS, *PSYCHOLOGICAL TESTS, ANALYSIS, ATTITUDES(PSYCHOLOGY), EDUCATION, EFFECTIVENESS, PERSONALITY, STUDENTS, THEORY IDENTIFIERS: PERSONNEL DEVELOPMENT DESCRIPTORS:

The autobiography as a counseling aid in vocational development is studied. Its predictive efficiency is compared with test data which are known to be predictive of the college major. Results indicate that reference patterns developed from student autobiographies could be used with other tests as predictive index of vocational development.

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SEARCH CONTROL NO. ZOMOS DOC REPORT BIBLIOGRAPHY

ILLINDIS UNIV URBANA GROUP EFFECTIVENESS RESEARCH

SOME COGNITIVE FACTORS AFFECTING GROUP

CREATIVITY

TRIANDIS, HARRY C.; MIKESELL, ELEANOR MAY 62 1V H.; EWEN, ROBERT B.;

3

REPT. NO. TR5 CONTRACT: NONR183436

UNCLASSIFIED REPORT

DESCRIPTORS: *GROUP DYNAMICS, ATTITUDES(PSYCHOLOGY),
DESIGN, EFFECTIVENESS, FACTOR ANALYSIS, LEADERSHIP,
MEASUREMENT, PERSONALITY, PSYCHOLOGICAL TESTS, DESCRIPTORS:

REASONING

3

step towards the determination of the relationship of determining group creativity was derived. Mapping the relationships between variables and stating the experiments on cognitive factors which affect group group and individual performance in groups of more creativity suggest that the relationship of group heterogeneity to group creativity is much more complex than was suspected by either Kelley and Thibaut (1954) or Campbell (1960). A procedure is derived for the study of dyadic conditional laws specifying these relationships yet to be studied. The second report is a first This report includes: TEAM CREATIVITY AS A FUNCTION OF THE CREATIVITY OF THE MEMBERS, by Harry C. Triandis, Alan R. Bass and others. Apr 62 (Technical rept. no. 6) Data from creativity. The most significant variables

3

than two individuals.

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16

SEARCH CONTROL NO. ZOMOS

BIRL IDGRAPHY

UMIN SEATTLE

3 ME PACTORS REVEALED BY FACTOR ANALYSIS OF MONED 17 EM POOL

SCHULTZ, CHARLES B.;

INCLASSIFIED REPORT

MINSA??33

TESTS, TEST CONSTRUCTION (PSYCHOLOGY) (U)

3 sets and their interaction with content in a were sale which have been discussed at length by seconses, or, conversely, common responses. These constructed 44-item truefalse hostility me manifity (SD), and tendency to make deviant research deals with three kinds of "westigators: acquiescence, social investigated. (Author) Alle: Ded 1179r

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J

3 A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE

FRENCH, JOHN W. : CONTRACT: NONR221400 MAY 61

UNCLASSIFIED REPORT

JESCRIPTORS: *APTITUDE TESTS, *MATHEMATICAL PREDICTION, *PERSONALITY TESTS, COMPUTERS, STATISTICAL ANALYSIS DESCRIPTORS:

3 skewness in the distributions of the variables and of correlation between the moderator variable and either machine is required or a more time-taking, expensive based on subjects standing low, middle, and high on all possible moderator variables were computed. predictors. The indices resulted in a small number the predictor or the criterion. Three groups of subjects totaling 1297 students were used with 42 contingency tables from which the indices were derived. The method permitted the speed necessary Predictors and criterion scores were paired after unsatisfactory due to distortion. Either a larger Searching for moderator variables in massive data was carried out with the IBM 650. Indices to represent validities for all possible predictors operating effectively. The relationship between Computational procedure is necessary. One clear moderator variable was revealed: visual spatial ability interferes with the correlation between the indices and product-moment correlations was for the search, but allowed distortion due to both had been trichotomized; this gave 3 x 3 of situations where moderator variables were interest in English and grades in English.

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PAGE

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 267 779 MICHIGAN UNIV ANN ARBOR DEVELOPMENT OF SELF-REPORT TESTS TO MEASURE PERSONALITY FACTORS IDENTIFIED FROM PEER NOMINATIONS(U)

MAY 61 1V NORMAN, WARREN T.; NTRACT: AF41 657 269

CONTRACT: AF41 657 269
MONITOR: ASD TN61 44

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY, *PERSONALITY TESTS,
EFFECTIVENESS, MEASUREMENT, MILITARY TRAINING, OFFICER
PERSONNEL, STATISTICAL ANALYSIS, TEST CONSTRUCTION
(PSYCHOLOGY)

An experimental battery of personality tests was constructed as part of a project to develop personality tests appropriate for use in selection of applicants for Air Force officer training.
Criteria were peer-nomination ratings previously shown to define personality factors that were predictive of Officer Effectiveness Ratings.
Rational selection of testing techniques and item forms was supplemented by information from a series of tryouts with small samples. The battery will be administered to a large sample composed of groups from which reliable peer-rating criteria can be obtained for full cross validation. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 266 861
AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

SIMILARITY OF FACTORS UNDERLYING PEER RATINGS OF SOCIALLY ACCEPTABLE, SOCIALLY UNACCEPTABLE, AND BIPOLAR PERSONALITY TRAITS (U)

JUN 61 1V TUPES, ERNEST C.; KAPLAN, MARGORIE N.; MONITOR: ASD TN61 48

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY, *PERSONALITY TESTS, DESIGN, FACTOR ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY)

factor structure underlying ratings when the traits were presented with socially acceptable definitions 1959 rated each other (in rating groups of 12 to 14 ratings of personality traits when the traits were expressed in bipolar form (e.g., Cooperative vs Obstructive). The present study investigated the personality traits is unaffected by differences in the polarity ofAD-266 862Div. 8, 25, 2U (TIPTP/MFA)Armour Research Foundation, Chicago, Ill. STUDY OF ATMOSPHERIC ELECTRICITY. factor analyzed, five factors emerged from each. These factors appeared to be the same five factors found in previous analyses. It was concluded that designed to obtain bipolar and unipolar ratings. When the three intercorrelation matrices were Five well-defined factors were found to underly socially unacceptable definitions alone (e.g., bipolar form. Five hundred members of the Air Officers) using one or another of three forms Quarterly engineering rept. no. 4, 1 Apr-30 June 61, by D. Fryberger. 30 Junthe rating the factor structure underlying ratings of Obstructive vs Not So); as well as in the alone (e.g., Cooperative vs Not So); with Force Command and Staff School Class of definitions. (Author)

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 266 344
BUREAU OF NAVAL PERSONNEL WASHINGTON D

THE RELATIONSHIP BETWEEN CERTAIN PERSONALITY MEASURES AND DELINQUENCY RATE IN A NAVY SAMPLE

AND DELINQUENCY RATE IN A NAVY SAMPLE
AUG 61 1V KNAPP, ROBERT R.:

UNCLASSIFIED REPORT

TB61 9

REPT. NO.

DESCRIPTORS: *ADJUSTMENT (PSYCHOLOGY), *PERSONALITY, MEASUREMENT, NAVAL PERSONNEL, PERSONALITY TESTS, SOCIOMETRICS, STATISTICAL ANALYSIS

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 264 916
AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHID

RELATIONSHIPS BETWEEN PERSONALITY TRAITS, PHYSICAL PROFICIENCY, AND CADET EFFECTIVENESS REPORTS OF AIR FORCE ACADEMY CADETS (U)

NOV 60 1V TUPES, ERNEST C.; KAPLAN, MARGORIE N.; MONITOR: ASD TN61 53

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY, AVIATION PERSONNEL,
EFFECTIVENESS, FACTOR ANALYSIS, MEASUREMENT, PERSONALITY
TESTS, PHYSICAL FITNESS, STATISTICAL ANALYSIS
IDENTIFIERS: AIR FORCE ACADEMY
(U)

perseverance, good adjustment, poise, social polish, and social intelligence were most highly related to CERs, while traits of surgency or extroversion such Cadets in 3 Air Force Academy classes rated each other on 20 personality traits as well as on physical ability and officer potential. For two of Staff School, the Academy cadets were found to differ little from these groups in the pattern of personality trait versus CER relationships. Five personality trait ratings were identified which correspond closely to the five (Surgency, the classes objective measures of physical proficiency were also available. Intercorrelation determine relationships between personality trait as talkativeness, frankness, adventurousness and sociability bore little or no relationships to CERs. The major portion of individual differences in CERs are related to these personality trait ratings. When compared with OCS candidates and majors attending Command and ratings and Cadet Effectiveness Ratings, and to determine the factor structure underlying the matrices within each class were analyzed to Agreeableness, Conscientiousness, Emotional analyses. A sixth factor was identified as ratings. Traits such as responsibility, Stability, and Culture) found in other physical ability. (Author)

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SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

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MICHIGAN UNIV ANN ARBOR

PROBLEMS OF RESPONSE CONTAMINATION IN PERSONALITY ASSESSMENT

3

NORMAN, WARREN T.; TN61 43 CONTRACT: AF41 657 269
MONITOR: ASD THE

UNCLASSIFIED REPORT

DESCRIPTORS: *PERSONALITY, *PERSONALITY TESTS, DESIGN, MEASUREMENT, PSYCHOLOGICAL TESTS, TEST METHODS (U)

This survey reports the first phase of a project to develop tests to measure five personality variables. Various techniques are defined and these are appraised on the basis of logical implications and empirical findings. Conclusions favored questionnaires composed of forcedchoice self-report items as best suited to the purpose of the project. tests to produce instruments valid for the selected criterion variable and free from appreciable biasing A program is outlined for construction of such effects. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOS DDC REPORT BIBLIDGRAPHY

AD- 207 502

A TEST PROGRAM FOR TWO ANTARCTIC EXPEDITIONS: 1956-GEORGETOWN UNIV WASHINGTON D C

1959

3

DESCRIPTIVE NOTE: Final rept. DEC 58 1V ZIMMER, HERBERT;

DEC 58 1V CONTRACT: NONR153006

UNCLASSIFIED REPORT

DESCRIPTORS: ATTITUDES(PSYCHOLOGY), EXPLORATION, PERSONALITY TESTS, SCIENTISTS IDENTIFIERS: DEEP FREEZE OPERATION

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UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 202 606 EDUCATIONAL TESTING SERVICE PRINCETON N J

3 PERSONALITY AND ABILITY CORRELATES OF ACQUIESCENT RESPONSE SET AND AUTHORITARIAN CONTENT MAR 58 23P MESSICK, SAMUEL; FREDERIKSEN, NORMAN; CONTRACT: NONR69400

UNCLASSIFIED REPORT

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Assessment and Enhancement Studies of Performance PR-72-22 AD- 752 143

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AD- 650 339 STUDY,

DEPT OF WINNIPEG *MANITOBA UNIV PSYCHOLOGY

RELATIONSHIP BETWEEN PERCEPTUAL DEPRIVATION TOLERANCE AND ADEQUACY OF DEFENSES AS MEASURED BY THE RORSCHACH, AD- 700 217

*MIAMI UNIV CORAL GABLES FLA *

MOTIVATIONAL AND INCENTIVE FACTORS IN SOCIALLY INFLUENCED * * * AD- 290 262 BEHAVIOR

PERSONALITY CORRELATES OF KINDS OF CONFORMING BEHAVIOR, AD- 418 342

*MICHIGAN STATE UNIV EAST LANSING COMPUTER INST FOR SOCIAL SCIENCE * * * RESEARCH

Traits on Experimental Games. (AFDSR-TR-72-0298)

*MICHIGAN UNIV ANN ARBOR AD- 740 556

CONTAMINATION IN PERSONALITY PROBLEMS OF RESPONSE (ASD-TN61 43) ASSESSMENT

AD- 262 433

DEVELOPMENT OF SELF-REPORT TESTS TO MEASURE PERSONALITY FACTORS IDENTIFIED FROM PEER * * * NOMINATIONS

(ASD-TN61 44) AD- 267 779

VALIDATION OF PERSONALITY TESTS AS MEASURES OF TRAIT-RATING FACTORS AD- 285 184

WEST POINT N *MILITARY ACADEMY

6 A NOTE ON THE INTERPRETATION PSYCHOLOGICAL DISTANCE: ASSUMED SIMILARITY BETWEEN OPPOSITES, AD- 410 775 (MA-TR9)

LONDON *MINISTRY OF AVIATION (ENGLAND)

A NOTE ON THE INTERPRETATION OF PSYCHOLOGICAL DISTANCE: ASSUMED SIMILARITY BETWEEN OPPOSITES, MA-TR9 AD- 410 775 *MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS

The Nature of Objectivity with the Rasch Model. TR-3008 AD- 754 819

Interpreting Standardized Test TR-8000

0-5 UNCLASSIFIED

ZOMOS

The Effects of Personality

Scores. AD- 725 475 .NAVAL ACADEMY ANNAPOLIS MD

USNA-TSPR-74
A Determination of Neurological
Differences Between Individuals as
Related to their Psychological/Motivational

NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA

AD-A015 961

THE RELATIONSHIP OF THE EDWARDS
PERSONAL PREFERENCE SCHEDULE TO
SUCCESS IN NAVAL FLIGHT TRAINING,
AD- 627 011

*NAVAL HEALTH RESEARCH CENTER SAN DIEGO CALIF

. . .

73-19
Disposition and Organizational
Effectiveness of Personality
Disorders in a Military Setting,
AD-A037 319

74-28 Identification of Psychiatric Vulnerability: An Overview, AD-A037 476

* * *

75-66
Correlates and Implications of Continued Participation in a Longitudinal Survey.

75-73
Reliability and Stability of the Comrey Personality Scales, AD-A025 533

76-19
Background and Personality
Characteristics Related to Student
Satisfaction and Performance in
Field Medical Service School.

AD-A024 941

* *

76-29
The Comrey Validity Check Scale as a Predictor of Reliable
Personality Test Data,
AD-A045 580

NAVAL MEDICAL RESEARCH INST BETHESDA

THE DEVELOPMENT AND USE OF PRIMARY AFFECT SCALE (PAS).

THE

THE INTERACTION OF PERSONALITY
AND INTELLIGENCE IN TASK
PERFORMANCE,
AD- 662 092

THE RELATIONSHIP BETWEEN
PERSISTENCE, INSOLENCE, AND
PERFORMANCE, AS A FUNCTION OF
GENERAL ABILITY,
AD- 662 104

INTERPERSONAL EXCHANGE AS A FUNCTION OF REWARD/COST AND SITUATIONAL FACTORS: EXPECTANCY CONFIRMATION-DISCONFIRMATION.
(NAVMED-MR005.12-2005-1)

PERSON-PERCEPTION AND SELF-DISCLOSURE: MOTIVATIONAL MECHANISMS IN INTERPERSONAL PROCESSES.

*

PERSONALITY FACTORS RELATED TO RESPONSE TO SOCIAL ISOLATION AND CONFINEMENT. (NAVMED-MR006.05-0001-2)

*NAVAL PERSONNEL RESEARCH AND DEVELOPMENT LAB WASHINGTON D

WRR-72-5 The Navy Advisor Profile Report,

AD- 732 754

*NAVAL POSTGRADUATE SCHOOL MONTEREY
CALIF * * *

AN INVESTIGATION OF THE VALIDITY OF THE GRADUATE RECORD EXAMINATION AND CERTAIN PERSONALITY OR INTEREST TESTS IN PREDICTING ACADEMIC PERFORMANCE IN THE MANAGEMENT CURRICULUM OF THE UNITED STATES NAVAL POSTGRADUATE SCHOOL,

Personality and Performance.

An Analysis of Military
Personality Through Self-Report.
AD-A007 655

Investigation of Goaling Models for Navy Recruiting. AD-A039 650

U. S. and Norwegian Military Officers' Personality Traits, Attitudes, Values and Leadership Styles: A Cross-National Comparison.

*NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA

AD-A045 793

AN EXPLORATORY INVESTIGATION OF THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY RESIGNATION FROM AVIATION TRAINING, (NAVMED-MROOS 13 5001 25)

THE EFFECT OF NON-SCORED ITEMS
AND RETESTING ON THE TAYLOR
MANIFEST ANXIETY SCALE.
AD- 467 964

CORRELATIONS BETWEEN DYNAMIC VISUAL ACUITY AND PERSONALITY TESTS.

(NAVMED-NM--1-109-107.01)

0-6 UNCLASSIFIED

ZOMOZ

P- 467 968

VALIDITY OF PERSONALITY
INVENTORIES IN THE NAVAL AVIATION
SELECTION PROGRAM.
AD- 467 983

CORRELATES OF READING SPEED AND THE TIME REQUIRED TO COMPLETE PERSONALITY INVENTORIES.

(NAVMED-NMO01-J08-100-16)

A NOTE ON THE EFFECT OF TEST SET ON THE ROSENZWEIG PICTURE-FRUSTRATION TEST, (NAVMED-NMQ01-108-100-19) THE SIGNIFICANCE OF ATTITUDES TOWARD PEERS IN DISCRIMINATING BETWEEN NAVAL AVIATION CADETS OF 'HIGH' AND 'LOW' MOTIVATION. (NAVMED-NM001-058.05.04)

NSAM-215

A PROCEDURE FOR REDUCING THE EFFECTS OF SLANTING QUESTIONNAIRE RESPONSES TOWARD SOCIAL ACCEPTABLLITY.

(NAVMED-NMO01-108-100-17)

*** SBNL-WEMO-62-5 SOME GENERAL COMMENTS CONCERNING PERSONNEL SELECTION FOR HAZARDOUS DUTY-AFTER SIX YEARS OF RESEARCH IN SUBMARINE SELECTION.

ONAVAL SUBMARINE MEDICAL RESEARCH LAB

AD- 664 657

NSMRL-737
Factors Related to Drug Abuse in the Submarine Service. II. Personality Trait Patterns as Delineated by the Minnesota

Multiphasic Personality Inventory. AR- 763 401

NSMRL-764
Factors Related to Drug Abuse in the Submarine Service. III. Characteristic Biographical Profiles and Related Data.

*NAVAL TRAINING DEVICE CENTER PORT

SPECDEVCEN-104-2-11
VOICE COMMUNICATION: EFFECT OF
STRESS ON TALKERS, A PERSONALITY
STUDY,

AD- 656 631

SPECDEVCEN-269-7-22 THE EFFECTS OF MENTAL HYGIENE FILMS ON SELF-REGARDING ATTITUDES. (RAPID MASS LEARNING).

AD- 640 884 *NAVY EXPERIMENTAL DIVING UNIT WASHINGTON D C NEDU-RR-17-70
Betting Preferences and Personality Characteristics of Navy Divers.

*NAVY MEDICAL NEUROPSYCHIATRIC
RESEARCH UNIT SAN DIEGO CALIF
* * *
THE RELIABILITY OF PERSONALITY
RATINGS UNDER VARIED ASSESSMENT

NMNRU-62-18
PERSONALITY CHARACTERISTICS
(EPPS) OF ANTARCTIC VOLUNTEERS,
AD- 814 862

NMNRU-63-6
VALUE AND PERSONALITY
DIFFERENCES BETWEEN OFFENDERS AND
NONOFFENDERS,
AD- 440 133

NMNRU-63-21
PAST EXPERIENCE, SELF
EVALUATION, AND PRESENT ADJUSTMENT
AD- 432 091

NMNRU-64-14 BODY SIZE, SELF EVALUATION, AND MILITARY EFFECTIVENESS, AD- 603 578

NMNRU-71-14
Introduction, Psychologica
Studies in Antarctica,
AD-A009 450

* * *

NMNRU-73-50
The Recruit Temperament Survey (RTS) as it Discriminates between Psychoses, Neuroses, and Personality Disorders.

*NEUCHATEL UNIV (SWITZERLAND)
INSTITUT DE PSYCHOLOGIE

EVALUATION DE LA PERSONNALITE ET SITUTATION DE SELECTION (personality Evaluation and the Selection Situation), *NEW YORK UNIV N Y RESEARCH CENTER FOR INDUSTRIAL BEHAVIOR

CRITERIA AND TRANSFER TRAINING, AD- 645 666

6

*NORTH CAROLINA UNIV CHARLOTTE

UNCLASSIFIED

ZOMOZ

ORE-SHU

< INDIVIDUAL BEHAVIOR IN SIMULATED PANIC SITUATION.

* * * OREGON UNIV EUGENE

THE SELF-OTHER ORIENTATIONS OF * * * THE MARGINAL MAN. AD- 706 753

Some Personality Correlates of Perceptions of and Reactions to Task Characteristics AD-A040 254 TR-11

UNIVERSITY PENNSYLVANIA STATE UNIV THE EFFECTS OF MENTAL HYGIENE FILMS ON SELF-REGARDING ATTITUDES. (RAPID MASS LEARNING). (SPECDEVCEN-269-7-22)

•PENNSYLVANIA STATE UNIV UNIVERSITY PARK DEPT OF PSYCHOLOGY

AD- 640 884

PAIRED ASSOCIATE LEARNING: A PILOT MEASURES OF VERBAL FLUENCY AND AD- 620 423

*PERSONNEL RESEARCH LAB LACKLAND AFB

APPLICATION OF A PSYCHOMETRIC-CLINICAL APPROACH TO PERSONNEL SELECTION FOR COUNTERINSURGENCY * * * PRL-TR64 24

*PERSONNEL RESEARCH LAB (ESTOTH)
AEROSPACE MEDICAL DIV LACKLAND AFB
TEX

SET AND CONTENT SCORES FOR

PERSONALITY SCALES AND RESPONSE STYLES IN THE MMPI, AD- 628 951

*PITTSBURGH UNIV

A P APPRAISAL AND GOAL SETTING AS FUNCTION OF SELF, INTERACTION DIFFERENTIAL RESPONSE TO TASK ORIENTATION. AD- 600 296

*PITTSBURGH UNIV PA LEARNING RESEARCH AND DEVELOPMENT CENTER

in On-Line Contingent Research and Implications for Learning. Methodological Considerations AD- 717 400

PRINCETON UNIV N J

THE MEASUREMENT OF FOUR SYSTEMS OF PERSONALITY STRUCTURE VARYING IN LEVEL OF ABSTRACTNESS. (SENTENCE COMPLETION METHOD) 40- 288 257

*PSYCHOLOGICAL RESEARCH ASSOCIATES INC ARLINGTON VA

A RESEARCH STUDY OF THE PREDICTION OF ADAPTABILITY TO THE AD- C69 503

A RESEARCH STUDY OF THE PREDICTION OF ADAPTABILITY TO THE AD- 069 503 TR-1

. PURDUE RESEARCH FOUNDATION LAFAVETTE

VOICE COMMUNICATION: EFFECT OF STRESS ON TALKERS, A PERSONALITY SPECDEVCEN-104-2-11) STUDY.

VOICE COMMUNICATION: RETENTION OF IMPROVED INTELLIGIBILITY, AD- 656 629

LAFAYETTE IND . . . *PURDUE UNIV

Similarity, Self-Esteem and Reactions to Aid in a Simulated Decision Making Task. AD- 772 631

욽 SAINT LOUIS UNIV

CRITERION MEASURES FOR USMC JUNIOR STATISTICAL DESCRIPTION OF AD- 068 055 CERS TR-5

SHUFORD-MASSENGILL CORP LEXINGTON

CONFIDENCE TESTING AT THE ACADEMIC INSTRUCTOR COURSE OF THE AIR UNIVERSITY: AUGUST AND (AFOSR-69-0404TR) SMC-R-13

AD- 685 178

OFFICER TRAINING SCHOOL, LACKLAND AIR FORCE DASE: SEPTEMBER 1968, (AFDSR-69-0405TR) CONFIDENCE TESTING AT THE . . . SMC-R-14 AD- 685 179

THEORY AND PRACTICE, SYSTEMS OF CONFIDENCE (AFDSR-69-0406TR) SMC-R-15 WEIGHTING: AD- 685 180

CONTINUING CLASSROOM USE CONFIDENCE TESTING, (AFOSR-69-0407TR) SMC-R-16 AD- 685 181

6

ZOMOS 0-8 UNCLASSIFIED

SMC-R-17
ITEM ANALYSIS BASED ON
CONFIDENCE RESPONSES,
(AFOSR-69-0408TR)
AD- 685 182
SMC-R-18
A NEW METHOD FOR PREDICTING

A NEW METHOD FOR PREDICTING
PERFORMANCE,
(AFOSR-69-1329TR)
AD- 708 189 * * * *
SMC-R-19
CONFIDENCE TESTING: A NEW TOOL
FOR MEASUREMENT,

FOR MESUREMENT,

(AFOSR-69-2348TR)

AD- 695 849

* * *

SMC-R-20

THE USE OF CONFIDENCE TESTING

IN THE ACADEMIC INSTRUCTOR COURSE,

(AFOSR-70-0143TR)

THE USE OF CONFIDENC
IN THE ACADEMIC INSTRUCT
(AFOSR-70-0143TR)
AD- 703 726 * * * *
SMC-R-23
DECISION-THEORETIC
PSYCHOMETRICS.
(AFOSR-70-2291TR)

* * * * PERCEPTION OF LEADERSHIP SMALL GROUPS
AD- 299 717

PERCEPTION OF LEADERSHIP IN SMALL GROUPS; A RANK ORDER INVESTIGATION OF THE EMERGENCE OF THE LEADERSHIP ROLE IN SMALL GROUPS.

*STANFORD UNIV CALIF DEPT OF PSYCHOLOGY

AD- 603 793

GNR-TR-Z-08 Social and Personal Bases of Individuation. AD- 751 109

TR-6 A STUDY OF PERSONALITY CORRELATES OF JUDGMENT BEHAVIOR. AD- 711 025

* * *

*STANFORD UNIV CALIF GRADUATE SCHOOL OF BUSINESS

PERCEPTION OF LEADERSHIP SMALL GROUPS. AD- 646 769

The Relation of Verbal and Quantitative Scores to Manager

Quantitative Scores to Ms Success. AD- 783 722 * * * TR-11 * * * Manager Development: Conceptual Model. * TEXAS CHRISTIAN UNIV FORT WORTH

TDR62 34
MILITARY SMALL GROUP
PERFORMANCE UNDER ISOLATION AND
STRESS. CRITICAL REVIEW IV.
SELECTION, INDOCTRINATION, AND
TRAINING FOR ARCTIC REMOTE DUTY
AD- 286 517

INFORMATION PROCESSES IN INTERPERSUNAL RELATIONSHIPS, AD- 405 684

*TUFTS UNIV MEDFORD MASS

* * *
THE MEASUREMENT OF CONFIDENCE
AND TRUST.

AD- 620 183

EFFECTS OF AFFECTIVE PICTURE
STIMULI ON THE LEARNING,
PERCEPTION, AND AFFECTIVE SCALE
VALUES OF PREVIOUSLY NEUTRAL WORDS
AD- 601 411

THE RELATION OF SELF-ESTEEM TO INDICES OF PERCEIVED BEHAVIORAL HOSTILITY.

THE PICTURE DESCRIPTION TEST: A PRELIMINARY REPORT, AD- 407 084

* * *

TR-27 CHARACTERISTICS OF THE VOLUNTEER FOR PSYCHOLOGICAL INVESTIGATIONS. AD- 626 753 RELATIONS BETWEEN NORMATIVE AND IPSATIVE MEASURES OF PERSONALITY AD- 149 600

ANALYSIS OF MOSIER'S FACTOR
ANALYSIS OF NEUROTIC ITEMS
AD- 161 902 * * * *
SOCIAL DESIRABILITY IN A TWOCHDICE PERSONALITY SCALE
AD- 161 906

RESPONSE SET FACTORS REVEALED
BY FACTOR ANALYSIS OF AN
UNCONFOUNDED ITEM POOL
AD- 276 410

MEASUREMENT OF PERSONALITY
DIMENSIONS. PART I. PSYCHOLOGICAL
MEASUREMENT,

* * * MEASUREMENT OF PERSONALITY DIMENSIONS. PART II. SPECIAL

UNCLASSIFIED Z

ZOMOZ

AD- 481 143

PROBLEMS.

MEASUREMENT OF PERSONALITY DIMENSIONS. PART IV. EXPERIMENTAL APPLICATIONS. SECTION A.

MEASUREMENT OF PERSONALITY DIMENSIONS. PART IV. EXPERIMENTAL APPLICATIONS. SECTION B.

ANGER-AROUSING INSTRUCTIONS AND THE SIMPLEX IN A PERSONALITY QUESTIONNAIRE,

INSTRUCTIONS AND THE SIMPLEX IN AD- 627 437

*WASHINGTON UNIV SEATTLE DEPT OF PSYCHOLOGY

Systems, and Behavior of High and Low LPC Persons. TR-70-12 AD- 714 230

Determinants of Leader Behavior. AD- 727 129 TR-71-19

THE MEASUREMENT OF HUMAN NEEDS AD- 108 613 *WESLEYAN UNIV MIDDLETOWN CONN

*WICHITA STATE UNIV KANS CENTER FOR HUMAN APPRAISAL AND COMMUNICATION RESEARCH

. . .

Superordinate/Subordinate Role Personality and (AFDSR-TR-77-0500) AD-A038 786 TR-112 Behavior.

0-10 UNCLASSIFIED

SUBJECT INDEX

PAST EXPERIENCE, SELF EVALUATION, AND PRESENT ADJUSTMENT,* PERSONALITY AD- 432 091 Characteristics of the volunteer for psychological investigations. AD- 626 753

PSYCHOLOGICAL TESTS *ABNORMAL PSYCHOLOGY

VALUE AND PERSONALITY
DIFFERENCES BETWEEN OFFENDERS AND
NONOFFENDERS.* PSYCHOLOGICAL TESTS AD- 440 133

STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR

ACHIEVEMENT TESTS

Research on Assessing Human

Abilities.*

AD-A015 027

NARCOTICS

*ADDICTION

Reprint: Personality factors in the selection of civilians for isolated northern stations: A *ADJUSTMENT (PSYCHOLOGY) PERSONALITY TESTS follow-up study. AD- 650 339

Factors Related to Drug Abuse in the Submarine Service. II. Personality Trait Patterns as Delineated by the Minnesota

Aultiphasic Personality Inventory.

AD- 763 401

Personality correlates of two

MOTIVATION

* ADJUSTMENT

kinds of conforming behavior.

AD- 418 342

Development of Psychometric Measures of Student Attitudes Toward Technical Training: Reliability and Factorial ATTITUDES (PSYCHOLOGY) *AIR FORCE TRAINING Validity.* AD- 723 314

CONFIDENCE TESTING AT THE OFFICER TRAINING SCHOOL, LACKLAND AIR FORCE BASE: SEPTEMBER 1968,* PERFORMANCE (HUMAN) AD- 685 179

An Evaluation of the Feasibility of Confidence Testing as a Diagnostic Aid in Technical **PSYCHOMETRICS** raining.* AD- 734 032

THE RELATIONSHIP BETWEEN CERTAIN PERSONALITY MEASURES AND DELINQUENCY RATE IN A NAVY SAMPLE+

No- 069 503

Relations between task and interpersonal success and group member adjustment.

(* SOCIOMETRICS

AD- 266 344

PREDICTION OF ADAPTABILITY TO THE

*ADJUSTMENT (PSYCHOLOGY)

TEACHING METHODS
USAF INSTRUCTORS JOURNAL.
VOLUME VII, NUMBER 3, WINTER 1969-AD- 701 048

Reprint: Air traffic control *AIR TRAFFIC Reprint: Personality factors in the selection of civilians for

solated northern stations.

ARCTIC REGIONS

AD- 601 630

specialists: Relation between age at entry and personal characteristics.

AD- 620 721

specialists: Relation between age Air traffic control *AIR TRAFFIC CONTROLLERS at entry and personal PSYCHOLOGICAL TESTS characteristics. Reprint: AD- 620 721

THE RELATIONSHIP BETWEEN FOUR
PERSONALITY MEASURES AND VOLUNTARY
RESIGNATION FROM AVIATION AN EXPLORATORY INVESTIGATION OF AVIATION PERSONNEL TRAINING. + AD- 424 212 *ANXIETY

DISCOVERY AND DEVELOPMENT OF MEASUREMENT SCALES FOR THE DIMENSIONS OF ANXIETY.* FACTOR ANALYSIS AD- 659 423

Test Anxiety: Situationally Specific or General.* PSYCHOLOGICAL TESTS AD- 746 453

Factors among Positive and Negative Poles of Temperament Scales.* AD-A003 551 Seeking Markers for Temperament *APPLIED PSYCHOLOGY

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT* A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA+ *APTITUDE TESTS AD- 271 148

Research to improve emlisted classified techniques. ARMY PERSONNEL AD- 605 281

MANAGEMENT PLANNING AND CONTROL

D-1 UNCLASSIFIED

SELECTION, INDOCTRINATION, AND TRAINING FOR ARCTIC REMOTE DUTY.
REDUCTION OF STRESS AT AC AND W SITES IN ALASKA. 28 REFERENCES. GROUP CREATIVITY. AD- 282 366

PERCEPTION OF LEADERSHIP IN GROUPS.

AD- 299 717

ATTITUDES(PSYCHOLOGY)
THE SELF-OTHER ORIENTATIONS OF
THE MARGINAL MAN.*

Measurement of confidence and trust; social influence and decision making. DECISION MAKING AD- 620 183

interpersonal success and group Relations between task and member adjustment. **EFFECTIVENESS** AD- 601 630

PERCEPTION(PSYCHOLOGY)
PERCEPTION OF LEADERSHIP IN SMALL GROUPS.+ AD- 646 769

small groups; a rank order investigation of the emergence of Perception of leadership in the leadership role in small PSYCHOLOGICAL TESTS

User's Handbook for Confidence festing as a Diagnostic Aid in echnical Training.* PSYCHOMETRICS *HANDBOOKS

Reprint: Betting Preferences ATTITUDES (PSYCHOLOGY)

and Personality Characteristics of Navy Divers. AD- 716 313

Discriminates between Psychoses, Neuroses, and Personality Temperament Survey (RTS) as it Reprint: The Recruit Disorders. AD-A003 575 *HOSPITALS

*JOBS

Reactions to Aid in a Simulated Decision Making Task.* Similarity, Self-Esteem and *HUMAN RELATIONS

Interpersonal exchange as a function of reward/cost and situational factors: expectancy confirmation-disconfirmation. INTERACTIONS Reprint: AD- 675 769 HUMANS

A Study of the Social Psychological Consequences of the Announcement to Close Naval Relation of Shipyards. Study 1. Relation Personality Measures to Job Satisfaction and Cohesiveness Items. Study 2. Reports of Physical Ailments under Three Conditions of Job Stress.+ *INDUSTRIAL PSYCHOLOGY STRESS(PSYCHOLOGY)

Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis,* *INSTRUCTORS AD-A018 979

THE USE OF CONFIDENCE TESTING IN THE ACADEMIC INSTRUCTOR COURSE, * AIR FORCE TRAINING AD- 703 726

*INTELLIGENCE TESTS

UNCLASSIFIED

A Survey of Intellectual and Personality Test Correlates in US Army Volunteer Subjects.* ARMY PERSONNEL AD- 740 644 The Relationships among Measures of Work Orientation, Job Attribute Preferences, Personality Measures, and Abilities.* AD-A031 795

U. S. and Norwegian Military Officers' Personality Traits, Attitudes, Values and Leadership Styles: A Cross-National Comparison.* AD-A045 793 *LEADERSHIP

Leadership in a Changing Society.* Unit Effectiveness and AD-A046 955

small groups; a rank order investigation of the emergence of Perception of leadership in the leadership role in small PERCEPTION (PSYCHOLOGY) AD- 603 793

PERCEPTION(PSYCHOLOGY)
PERCEPTION OF LEADERSHIP IN SMALL GROUPS.* AD- 646 769

Determinants of Leader Behavior. * Personality and Situational PERSONALITY AD- 727 129

Personality, Motivational Systems, and Behavior of High and Low LPC Persons.* SCIENTIFIC RESEARCH AD- 714 230

Methodological Considerations in EXPERIMENTAL DESIGN *LEARNING

INDIVIDUAL BEHAVIOR IN A SIMULATED PANIC SITUATION.*

AD- 661 356

ARCTIC REGIONS
Reprint: Personality factors in the selection of civilians for solated northern stations: A CIVILIAN PERSONNEL follow-up study. AD- 650 339

Reprint: Personality factors in the selection of civilians for isolated northern stations. AD- 611 989 SELECTION

Significance Test for a Partial Correlation Corrected for CORRELATION TECHNIQUES PSYCHOLOGICAL TESTS Attenuation.* AD- 737 696

Application of a psychometricselection for counterinsurgency clinical approach to personnel *COUNTERINSURGENCY PERSONNEL MANAGEMENT AD- 608 804

VALUE AND PERSONALITY
DIFFERENCES BETWEEN OFFENDERS AND
NONOFFENDERS,* SOCIAL COMMUNICATION AD- 440 133 CRIMNOLOGY

Measurement of confidence and trust; social influence and decision making. *DECISION MAKING GROUP DYNAMICS AD- 620 183

GENERALIZABILITY OF GAME PLAYING PERFORMANCE (HUMAN) AD- 646 377 SKILL.*

CORRELATES OF JUDGMENT BEHAVIOR. * A STUDY OF PERSONALITY AD- 711 025

THE SELF-OTHER ORIENTATIONS OF THE MARGINAL MAN. * PERSONALITY AD- 706 753

PSYCHOLOGICAL TESTS
DECISION-THEORETIC psychometrics.* *DECISION THEORY AD- 712 409

Reprint: Betting Preferences and Personality Characteristics of ATTITUDES (PSYCHOLOGY) Navy Divers. AD- 716 313 *DIVING

Factors Related to Drug Abuse in the Submarine Service. III. Characteristic Biographical Profiles and Related Data.* *DRUG ABUSE

DISPERSION ANALYSIS AND THE SEARCH FOR EDUCATIONAL GOALS IN AD- 282 532 *EDUCATION

Interpreting Standardized Test PSYCHOLOGICAL TESTS AD- 725 475 Scores. *

Differences Between Individuals as A Determination of Neurological Psychological/Motivational Differences.* *ELECTROENCEPHALOGRAPHY Related to their AD-A015 961

A Study of the Impact of Personality Differences on *ELECTRONIC TECHNICIANS

Troubleshooting Performance.* AD-A044 259

THE DEVELOPMENT AND USE OF PRIMARY AFFECT SCALE (PAS).* PSYCHOLOGICAL TESTS AD- 655 651 *EMOTIONS

Manager Development: Conceptual Model.* AD-A025 462 *EXECUTIVES

FACTOR ANALYSIS OF AN UNCONFOUNDED ITEM POOL. THREE KINDS OF RESPONSE RESPONSE SET FACTORS REVEALED BY ACQUIESCENCE, SOCIAL
DESIRABILITY, AND TENDENCY TO MAKE
DEVIANT (OR COMMON) RESPONSES.
RESULTS ARE COMPATIBLE WITH RE-ANALYSIS OF MOSIER'S FACTOR ANALYSIS OF NEUROTIC ITEMS+ DI SCUSSED: *FACTOR ANALYSIS AD- 161 902 SETS ARE

Factor analysis of experimental noncognitive measures of combat ARMY PERSONNEL potential. AD- 276 410

STUDIES OF RESPONSE SETS USING

The Measurement of Food Attitudes and Personality Personnel in Alaska.* AD- 609 032

DECISION MAKING GENERALIZABILITY OF GAME PLAYING Characteristics of U.S. Air Force AD-A043 011 *GAME THEORY AD- 646 377 SKILL.

SOME COGNITIVE FACTORS AFFECTING GROUP DYNAMICS

DEVELOPMENT OF PERSONALITY TESTS FOR NAVAL OFFICER SELECTION. I. ANALYSIS OF U. S. NAVAL ACADEMY CRITERION OF APTITUDE FOR SERVICE. OFFICER PERSONNEL AD- 710 018

Factor analysis of experimental noncognitive measures of combat PSYCHOLOGICAL TESTS *ARMY PERSONNEL potential. 4D- 609 032

Research to improve enlisted classified techniques. 4D- 605 281 SELECT 10N

marksmanship of new West Point Personal ity-leadership correlates of trainfire ARMY TRAINING 4D- 622 296 GUNNERY

TEST WHICH IDENTIFICATION OF PERSONALITY CHARACTER DISORDERS IN AL RECRUITS USING PROVERBIAL ATTITUDES TEST DISCRIMINATES BETWEEN NORMAL SUBJECTS AND SUBJECTS WITH PERSONALITY AND CHARACTER *ATTITUDES (PSYCHOLOGY) WOMEN NAVAL DISORDERS.

indices of perceived behavioral Similarity, Self-Esteem and Relation of self-esteem to hostility. ND- 283 057 ND- 601 412

Reactions to Aid in a Simulated

Decision Making Task.*

Attitudes and Personality Characteristics of U.S. Air Force The Measurement of Food Personnel in Alaska, * 10- 772 631

AN EXPLORATORY INVESTIGATION OF THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY RESIGNATION FROM AVIATION AVIATION PERSONNEL TRAINING, *

AD- 424 212

function of self, group interaction, and task orientation. THE SELF-DIHER ORIENTATIONS OF appraisal and goal setting as a Differential response to THE MARGINAL MAN. * GROUP DYNAMICS AD- 600 296 AD- 706 753

PAST EXPERIENCE, SELF EVALUATION, AND PRESENT NAVAL PERSONNEL ADJUSTMENT, * 4D- 432 091

stand on judgment and production of statements about a central issue. Effects of personality and own PERSONALITY AD- 617 924

Development of Psychometric Measures of Student Attitudes Toward Technical Training: Reliability and Factorial PSYCHOLOGICAL TESTS Validity.* AD- 723 314

MEASURES OF REACTION TO THREAT OF PHYSICAL HARM AS PREDICTORS OF PERFORMANCE IN MILITARY AVIATION ATTITUDES (PSYCHOLOGY) *AVIATION PERSONNEL TRAINING, *

personal preference schedule to success in naval flight training. Relationship of the Edwards SELECTION

DISPERSION ANALYSIS AND THE SEARCH FOR EDUCATIONAL GOALS IN COLLEGE. *BEHAVIOR

AGREEMENT-SEEKING PROCESS, AND (2) FACTORS IN SOCIALLY INFLUENCED
BEHAVIOR: (1) A NORMATIVE OR AD- 282 532
MOTIVATIONAL AND INCENTIVE FACTORS IN SOCIALLY INFLUEN AND INFORMATIONAL OR

CORRELATION OF SCORES DERIVED FROM SIMULATED SITUATIONS OF IN-BASKET PERFORMANCE. AD- 290 262 AD- 405 626

INFORMATION-SEEKING PROCESS,

Reactions to Aid in a Simulated Decision Making Task. * Similarity, Self-Esteem and 4D- 772 631

indices of perceived behavioral Relation of self-esteem to hostility. AD- 601 412 ANALYSIS

toward peers in discriminating between naval aviation cadets of The significance of attitudes high and low motivation. AVIATION PERSONNEL AD- 468 236

Parsonality correlates of two kinds of conforming behavior. MEASUREMENT AD- 418 342

Reprint: The interaction of personality and intelligence task performance. PERSONALITY AD- 662 092

between persistence, insolence, and performance, as a function of Reprint: The relationship general ability. AD- 662 104

SURVIVAL (PERSONNEL)

UNCLASSIFIED

ZOMOS

On-Line Contingent Research and Implications for Learning.* AD- 717 400

The Development of a Measure of State Epistemic Curiosity.* PERSONALITY AD- 728 984

and Learning and Personality, Language (Symbolic) Behavior herapy. * AD- 720 350 **PSYCHIATRY**

values of previously neutral words. Effects of affective picture perception, and affective scale stimuli on the learning, VISUAL PERCEPTION ND- 601 411

paired associate learning: A pilot Measures of verbal fluency and WORD ASSOCIATION

AD- 620 423

Investigation of the validity of the graduate record examination and certain personality or interest tests in predicting academic performance in the management curriculum of the US Naval MANAGEMENT ENGINEERING postgraduate school. NAVAL TRAINING 480 892

Biosystem Personnel Test Battery: Predictive Validity of the Preliminary Analysis,* MARINE BIOLOGY 40-A018 979

A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA+ *MATHEMATICAL PREDICTION 10- 271 148

*MENTAL DISORDERS

Temperament Survey (RTS) as it Discriminates between Psychoses, Neuroses, and Personality Reprint: The Recruit Disorders.

Disposition and Organizational Disorders in a Military Setting,* Effectiveness of Personality AD-A037 319 AD-A003 575

Identification of Psychiatric Vulnerability: An Overview,*

Application of a psychometricselection for counterinsurgency clinical approach to personnel *MILITARY PERSONNEL COUNTERINSURGENCY AD- 608 804

A DESCRIPTION OF THE PERSONALITY CHARACTERISTICS OF ENLISTED VOLUNTEERS FROM THE FOURTH, FIFTH, AND SIXTH US ARMY AREAS, 1965. * PERSONALITY AD- 800 334

A note on the interpretation of psychological distance: Assumed similarity between opposites. AD- 410 775 TRAINING

SELECTION. INDOCTRINATION, AND TRAINING FOR ARCTIC REMOTE DUTY.
REDUCTION OF STRESS AT AC AND W SITES IN ALASKA. 28 REFERENCES. *MILITARY PSYCHOLOGY REDUCTION OF AD- 286 517

Characteristics Related to Student Satisfaction and Performance in Field Medical Service School. * Background and Personality *MILITARY TRAINING AD-A024 941

*NARCOTICS

A note on the interpretation of PSYCHOLOGICAL TESTS

psychological distance: Assumed similarity between opposites. AD- 410 775

ADJUSTMENT(PSYCHOLOGY)

THE EFFECTS OF MENTAL HYGIENE
FILMS ON SELF-REGARDING ATTITUDES.
(RAPID MASS LEARNING).* *MOTION PICTURES AD- 640 884

THE MEASUREMENT OF HUMAN NEEDS* *MOTIVATION*

THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY AN EXPLORATORY INVESTIGATION OF RESIGNATION FROM AVIATION AVIATION PERSONNEL TRAINING. . AD- 424 212

The significance of attitudes toward peers in discriminating between naval aviation cadets of high and low motivation. GROUP DYNAMICS

Differential response to appraisal and goal setting as a function of self, group interaction, and task orientation. PERSONALITY

Social and Personal Bases of Individuation.* AD- 751 109

CONSTRUCTION OF SELF-DESCRIPTION BLANK TO SELECT ARMY DRIVERS* *MOTOR VEHICLE OPERATORS AD- 046 345

Factors Related to Drug Abuse in the Submarine Service. II. Personality Trait Patterns as Delineated by the Minnesota **ADDICTION**

UNCLASSIFIED

ZOMOS

Multiphasic Personality Inventory.*
AD- 763 401

NAVAL PERSONNEL

DIVING
Reprint: Betting Preferences
and Personality Characteristics of
Navy Divers.
AD- 716 313

MILITARY PSYCHOLOGY
Reprint: Personality
differences among Navy occupational
groups.

AD- 644 809

PERFORMANCE (HUMAN)
Body size, self evaluation, and
military effectiveness.
AD- 603 578

SELECTION

DEVELOPMENT OF PERSONALITY TESTS

FOR NAVAL OFFICER SELECTION. 1.

ANALYSIS OF U. S. NAVAL ACADEMY

CRITERION OF APTITUDE FOR SERVICE.

AD— 710 018

TESTS FOR NAVAL OF PERSONALITY

TESTS FOR NAVAL OFFICER SELECTION.

AD— 710 023

VIETNAM
The Navy Advisor Profile
Report.*
AD- 732 754

•NAVIGATCRS

Navigator-Observer Selection

Research: Development of New Air
Force Officer Qualifying Test

Navigator-Technical Composite.•

AD-A042 689

*NEUROLOGY
A Determination of Neurological
Differences Between Individuals as
Related to their
Psychological/Motivational
Differences.*

+OFFICER PERSONNEL
STATISTICAL DESCRIPTION OF
CRITERION MEASURES FOR USMC JUNIOR
OFFICERS*
AD- 068 055

An Analysis of Military Personality Through Self-Report.* AD-A007 655

U. S. and Norwegian Military Officers' Personality Traits, Attitudes, Values and Leadership Styles: A Cross-National Comparison.* APTITUDE TESTS

DEVELOPMENT OF PERSONALITY TESTS

FOR NAVAL GFICER SELECTION. I.

ANALYSIS OF U. S. NAVAL ACADEMY

CRITERION OF APTITUDE FOR SERVICE.*

PERSONALITY TESTS
THE DEVELOPMENT OF PERSONALITY
TESTS FOR NAVAL OFFICER SELECTION.*
AD- 710 023

*PARAMEDICAL SCIENCES

Background and Personality
Characteristics Related to Student
Satisfaction and Performance in
Field Medical Service School.*
AD-A024 941

Reprint: Correlates and Implications of Continued Participation in a Longitudinal Survey.

*PERCEPTION
THE MEASUREMENT OF INDIVIDUAL
OIFFERENCES IN PERCEIVED
PERSONALITY TRAIT RELATIONSHIPS
AND THEIR RELATION
DETERMINANTS.
AD- 401 025

Trial studies of interpersonal relationships associated with interpersonal knowledge, real similarity, and the psychological structure of groups.

AD- 405 684

ATTITUDES(PSYCHOLOGY)
A note on the interpretation of psychological distance: Assumed similarity between opposites.
AD- 410 775

VERBAL BEHAVIOR

Effects of affective picture
stimuli on the learning,
perception, and affective scale
values of previously neutral words.

AD- 601 411

LEADERSHIP
Perception of leadership in
small groups; a rank order
investigation of the emergence of
the leadership role in small
groups.
AD- 603 793

*PERCEPTION (PSYCHOLOGY)

*PERCEPTION(PSYCHOLOGY)
Some Personality Correlates of
Perceptions of and Reactions to
Task Characteristics.*
AD-A040 254

Reprint: Person-perception and Reprint: Person-perception and self-disclosure: Motivational processes.

GROUP DYNAMICS
PERCEPTION OF LEADERSHIP IN
SMALL GROUPS. •

AD- 694 222

*PERFORMANCE (HUMAN)
NAVAL PERSONNEL
BODY Size, self evaluation, and
military effectiveness.
AD- 603 578

*PERFORMANCE(MUMAN)
Personality and Performance.*
AD- 783 775

UNCLASSIFIED ZO

AIR FORCE TRAINING
CONFIDENCE TESTING AT THE
CONFIDENCE TESTING AT THE
AIR FORCE BASE: SEPTEMBER 1968,*
AD-685 179
MEASURES OF REACTION TO THREAT
OF PHYSICAL HARM AS PREDICTORS OF
PERFORMANCE IN MILITARY AVIATION
TRAINING,*

AD- 688 817

EFFECTIVENESS
Investigation of the validity of
the graduate record examination and
certain personality or interest
tests in predicting academic
performance in the management
curriculum of the US Naval
postgraduate school.

MATHEMATICAL PREDICTION
The Nature of Objectivity with
the Rasch Model.*
AD- 754 819

MEASUREMENT
SYSTEMS OF CONFIDENCE WEIGHTING:
THEORY AND PRACTICE,*
AD-685 180
TEM ANALYSIS RASED ON

ITEM ANALYSIS BASED ON CONFIDENCE RESPONSES.* AD- 685 182 Studies of Performance Assessment and Enhancement.*

AD- 752 143

PERSONALITY TESTS
SOME PERSONALITY CORRELATES OF
TREADMILL PERFORMANCE UNDER PUBLIC
AND PRIVATE SURVEILLANCE.*

PREDICTIONS
A NEW METHOD FOR PREDICTING
PERFORMANCE,*
AD- 708 189

TRANSCRIBER CONFIDENCE IN

VOICE COMMUNICATIONS

RELATION TO ACCURACY OF

TRANSCRIPTION. *

*PERSONALITY
PROBLEMS OF RESPONSE
CONTAMINATION IN PERSONALITY
ASSESSMENT*

AD- 262 433

RELATIONSHIPS BETWEEN

PERSONALITY TRAITS, PHYSICAL

PROFICIENCY, AND CADET

EFFECTIVENESS REPORTS OF AIR FORCE

ACADEMY CADETS*

AD- 264 916
THE RELATIONSHIP BETWEEN CERTAIN
PERSONALITY MEASURES AND
DELINQUENCY RATE IN A NAVY SAMPLE*
AD- 266 344
SIMILARITY OF FACTORS UNDERLYING

SIMILARITY OF FACTORS UNDERLYING
PEER RATINGS OF SOCIALLY
ACCEPTABLE, SOCIALLY UNACCEPTABLE,
AND BIPDLAR PERSONALITY TRAITS*

ND- 266 861
DEVELOPMENT OF SELF-REPORT TESTS
TO MEASURE PERSONALITY FACTORS

AD-A043 011

DEVELOPMENT OF SELF-REPORT TES
TO MEASURE PERSONALITY FACTORS
IDENTIFIED FROM PEER NOMINATIONS*
AD~ 267 779
DISPERSION ANALYSIS AND THE
SEARCH FOR EDUCATIONAL GOALS IN

COLLEGE.

AD- 282 532
THE MEASUREMENT OF 4 SYSTEMS OF
PERSONALITY STRUCTURE VARYING IN
LEVEL OF ABSTRACTNESS.
AD- 288 257

AD- 288 257
THE MEASUREMENT OF INDIVIDUAL
DIFFERENCES IN PERCEIVED
PERSONALITY TRAIT RELATIONSHIPS
AND THEIR RELATION TO CERTAIN
AD- 401 025

The picture description test, a technique for measuring deviant responses to pictured persons.

No 407 084

A note on the interpretation of psychological distance: Assumed similarity between opposites.

- 410 775
The Relation of Verbal and Quantitative Scores to Manager

Success.* AD- 783 722 Research on Assessing Human

Abilities.*
AD-A015 027
Disposition and Organizational
Effectiveness of Personality

Effectiveness of Personality
Disorders in a Military Setting,
AD-A037 319
Personality and
Superordinate/Subordinate Role

Personality and
Superordinate/Subordinate Role
Behavior.*
AD-A038 786
AD-Ensonality Correlates of
Perceptions of and Reactions to

Task Characteristics.*
AD-A040 254
Attitudes and Personality
Characteristics of U.S. Air Force

ADJUSTMENT (PSYCHOLOGY)
PAST EXPERIENCE, SELF
EVALUATION, AND PRESENT
ADJUSTMENT,*
AD 432 091

ANALYSIS OF VARIANCE
A STUDY OF PERSONALITY
CORRELATES OF JUDGMENT BEHAVIOR.*
AD- 711 025

ATTITUDES(PSYCHOLOGY)

Effects of personality and own stand on judgment and production of statements about a central issue.

AD- 617 924

BEHAVIOR
Reprint: The interaction of personality and intelligence in task performance.
AD- 662 092

Reprint: The relationship between persistence, insolence, and performance, as a function of general ability.

NCLASSIFIED

ZOMOZ

PER-PER

VALUE AND PERSONALITY
DIFFERENCES BFTWEEN OFFENDERS AND
NONOFFENDERS.* ND- 440 133 CRIMNOLOGY

THE SELF-OTHER ORIENTATIONS OF THE MARGINAL MAN. * DECISION MAKING

Reprint: Personality factors related to response to social isolation and confinement. FACTOR ANALYSIS

Traits on Experimental Games.* The Effects of Personality GAME THEORY AD- 740 556

Personality and Situational Determinants of Leader Behavior.* LEADERSHIP AD- 727 129

Personality correlates of two kinds of conforming behavior. MEASUREMENT

effects of slanting questionnaire A procedure for reducing the responses toward social acceptability.

Measurement of personality

dimensions part 1. Psychological of personality dimensions part 2. special Measurement measurement.

instructions to the subject and the Personality assessment: simplex or Guttman scale. 10- 481 143 40- 627 437

Reprint: Personality evaluation and the selection situation.

Systems, and Behavior of High and Low LPC Persons.* Personality, Motivational

Personality Dimensions Derived AD- 714 230

The Nature of Objectivity with from Multiple Instruments.* the Rasch Model. *

A DESCRIPTION OF THE PERSONALITY CHARACTERISTICS OF ENLISTED VOLUNTEERS FROM THE FOURTH, FIFTH, AND SIXTH US ARMY AREAS, 1965.* MILITARY PERSONNEL AD- 754 819

Social and Personal Bases of Individuation.* MOTIVATION AD- 751 109

Body size, self evaluation, and military effectiveness. NAVAL PERSONNEL AD- 603 578

Learning and Personality, and Language (Symbolic) Behavior PERCEPTION (PSYCHOLOGY) Therapy,* AD- 720 350

Reprint: Person-perception and self-disclosure: Motivational mechanisms in interpersonal PERFORMANCE (HUMAN) AD- 694 222

and Personality Characteristics of Betting Preferences Reprint: AD- 716 313

(EPPS) OF ANTARCTIC VOLUNTEERS.* AD- 814 862 PERSONNEL

UNCLASSIFIED

PSYCHOLOGICAL TESTS

THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY AN EXPLORATORY INVESTIGATION OF RESIGNATION FROM AVIATION TRAINING. *

The effect of non-scored items and retesting of the Taylor manifest anxiety scale. ND- 467 964 AD- 424 212

Correlates of reading speed and the time required to complete Measurement of personality personality inventories. ND- 468 191

dimensions Part IV. Experimental applications, section A. AD- 482 682

Measurement of personality dimensions. Part IV. Experimental applications. Section B. Concept formation and attainment as a function of personality AD- 483 626

Reprint: Personality factors in the selection of civilians for isolated northern stations AD- 611 989 AD- 608 122

organ ization.

personality ratings undervried Reprint: Reliability of assessment conditions.

reliability in personality ratings. Reprint: Determinants of

success in naval flight training personal preference schedule to Relationship of the Edwards AD- 627 011

Reprint: Set and content scores for personality scales and response styles in the MMPI. Anger-arousing instructions and the simplex in a personality quest ionnaire. 4D- 627 182

Personality of student Reprint: SCUBA DIVERS AD- 686 011

The decision to participate in small groups experiments: patterns of self-disclosure and the SOCIAL PSYCHOLOGY volunteer.

VOICE COMMUNICATION: EFFECT OF STRESS ON TALKERS, A PERSONALITY STUDY, * SPEECH

10- 605 752

function of self, group interaction, and task orientation. appraisal and goal setting as a Differential response to ND- 656 631 AD- 600 296 STUDENTS

The effect of test set on the Rosenzweig Picture-Frustration TEST CONSTRUCTION(PSYCHOLOGY)

AD- 468 193

CONSTRUCTION OF SELF-DESCRIPTION STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR BLANK TO SELECT ARMY DRIVERS* *PERSONALITY TESTS

A RESEARCH STUDY OF THE PREDICTION OF ADAPTABILITY TO THE

A COMPARISON OF NEED-ACHIEVEMENT STORIES WRITTEN BY EXPERIMENTALLY "RELAXED" AND "ACHIEVEMENT-ORIENTED' SUBJECTS: EFFECTS
OBTAINED WITH NEW PICTURES AND REVISED SCORING CATEGORIES+ 10- 147 362 ND- 069 503

RELATIONS BETWEEN NORMATIVE AND

IPSATIVE MEASURES OF PERSONALITY* RESPONSE SET AS A MEASURE OF PERSONALITY* AD- 149 600

RE-ANALYSIS OF MOSIER'S FACTOR ANALYSIS OF NEUROTIC ITEMS* AD- 161 902

SOCIAL DESIRABILITY IN A TWD-CHOICE PERSONALITY SCALE* AD- 161 906

PROBLEMS OF RESPONSE CONTAMINATION IN PERSONALITY ASSESSMENT*

SIMILARITY OF FACTORS UNDERLYING PEER RATINGS OF SOCIALLY ACCEPTABLE, SOCIALLY UNACCEPTABLE, AND BIPOLAR PERSONALITY TRAITS* AD- 262 433

DEVELOPMENT OF SELF-REPORT TESTS TO MEASURE PERSONALITY FACTORS IDENTIFIED FROM PEER NOMINATIONS* A MACHINE SEARCH FOR MODERATOR AD- 267 779 1D- 266 861

FACTOR ANALYSIS OF AN UNCONFOUNDED ITEM POOL. THREE KINDS OF RESPONSE SETS ARE DISCUSSED: RESPONSE SET FACTORS REVEALED BY ACQUIESCENCE, SOCIAL
DESIRABILITY, AND TENDENCY TO MAKE
DEVIANT (OR COMMON) RESPONSES.
RESULTS ARE COMPATIBLE WITH
\$TUDIES OF RESPONSE SETS USING VARIABLES IN MASSIVE DATA+ 4D- 271 148

PSYCHO-SOCIAL DEVELOPMENTAL PHASES, THE PERSONALITY DISORDERS, AND THE PROVERBS TEST* RECRUITS USING DISCRIMINATES BETWEEN NORMAL PROVERBIAL ATTITUDES WOMEN NAVAL 40- 283 056 AD- 276 410

TEST WHICH CHARACTER DISORDERS IN IDENTIFICATION OF PERSONALITY SUBJECTS AND SUBJECTS WITH PERSONALITY AND CHARACTER DISORDERS.

PER-PER

EMPIRICAL SCALES PREDICTIVE OF PEER-NOMINATION PERSONALITY RATINGS FROM THE SAME GROUPS. DETECTION KEYS FOR FAKED PERFORMANCES. VALIDATION OF PERSONALITY TESTS
AS MEASURES OF TRAIT-RATING
FACTORS. THREE FORCED-CHOICE SELFREPORT TESTS TO DEVELOP

THE MEASUREMENT OF 4 SYSTEMS OF PERSONALITY STRUCTURE VARYING IN LEVEL OF ABSTRACTNESS. AD- 285 184 AD- 288

Factors Related to Drug Abuse in the Submarine Service. III. Profiles and Related Data.* Characteristic Biographical AD- 777 703

Factors among Positive and Negative Seeking Markers for Temperament Personality and Performance.* AD- 783 775

Poles of Temperament Scales.* An Analysis of Military 551 AD-A003

Personality Through Self-Report.*
AD-A007 655 Research on Assessing Human

Differences Between Individuals as Related to their A Determination of Neurological Psychological/Motivational Abilities.* AD-A015 027

Perceived Presses--USAWC Class Psychological Needs and Differences. * 4D-A015 961 1975. *

AD-A017 . 046

Stability of the Comrey Personality Disorders in a Military Setting,* Disposition and Organizational Reliability and Effectiveness of Personality Reprint: AD-A025 533 Scales.

Troubleshooting Performance. A Study of the Impact of Personality Differences on AD-A037 319

UNCLASSIFIED

ZOMOS

PER-PSY

Reprint: The Comrey Validity Reliable Personality Test Data. Check Scale as a Predictor of ND-A045 580 AD-A044 259

Reprint: Personality factors in the selection of civilians for solated northern stations: A ADJUSTMENT (PSYCHOLOGY) follow-up study. AD- 650 339

A Survey of Intellectual and Personality Test Correlates in US Army Volunteer Subjects.* ARMY PERSONNEL AD- 740 644

Validity of personality inventories in the Naval aviation selection program. NAVAL AVIATION

THE DEVELOPMENT OF PERSONALITY TESTS FOR NAVAL OFFICER SELECTION.** OFFICER PERSONNEL

SOME PERSONALITY CORRELATES OF TREADMILL PERFORMANCE UNDER PUBLIC AND PRIVATE SURVEILLANCE.* PERFORMANCE (HUMAN) AD- 666 176

the Item Aviation: An Analysis of the Ite Ambiguity Characteristics of the Personality Assessment in STATISTICAL ANALYSIS IGPF and MMPI,+ AD- 736 266

Factors Related to Drug Abuse in the Submarine Service. II. Multiphasic Personality Inventory.* Delineated by the Minnesota SUBMARINE PERSONNEL AD- 763 401

TEST CONSTRUCTION(PSYCHOLOGY)
IMPRESSION FORMATION AS A
MEASURE OF THE COMPLEXITY OF
CONCEPTUAL STRUCTURE.* AD- 659 962

The Development of a Measure of State Epistemic Curiosity.* AD- 728 984

A Simple Confidence Testing Format. *

NAVAL PERSONNEL *PERSONALTITY

AD- 737 113

differences among Navy occupational Reprint: Personality AD- 644 809 aroups.

(EPPS) OF ANTARCTIC VOLUNTEERS.+ ANTARCTIC REGIONS AD- 814 862 *PERSONNEL

Manager Development: Conceptual Model.* *PERSONNEL DEVELOPMENT AD-A025 462

*PERSONNEL SELECTION

Research: Development of New Air Navigator-Technical Composite. * Navigator-Observer Selection Force Officer Qualifying Test Reprint: Introduction, Psychological Studies in Antarctica. AD-A009 450

*PSYCHIATRY

Personality Differences on Troubleshooting Performance. A Study of the Impact of AD-A042 689 AD-A044 259 The picture description test, technique for measuring deviant responses to pictured persons. AD- 407 084

*PHOTOINTERPRETATION
PSYCHOLOGICAL TESTS
IMPACT OF FEEDBACK ON ACCURACY OF CONFIDENCE LEVELS ASSIGNED BY INTERPRETERS.* AD- 657 583 *PHOTOINTERPRETERS
ATTITUDES(PSYCHOLOGY)
IMPACT OF FEEDBACK ON ACCURACY
OF CONFIDENCE LEVELS ASSIGNED BY INTERPRETERS. * AD- 657 583

values of previously neutral words Effects of affective picture stimuli on the learning, perception, and affective scale REACTION (PSYCHOLOGY) AD- 601 411 *PICTURES

TEST METHODS
THE USE OF CONFIDENCE TESTING IN THE ACADEMIC INSTRUCTOR COURSE, * *PROGRAMMED INSTRUCTION AD- 703 726

Concept formation and attainment as a function of personality *PROJECTIVE TECHNIQUES PSYCHOLOGICAL TESTS organization. AD- 608 122

PSYCHO-SOCIAL DEVELOPMENTAL PHASES, THE PERSONALITY DISORDERS, AND THE PROVERBS TEST* Discriminates between Psychoses, Temperament Survey (RTS) as it Neuroses, and Personality Reprint: The Recruit Disorders.

Learning and Personality, and Language (Symbolic) Behavior Therapy,* LEARNING

AD-A003 575

AD- 720 350

*PSYCHOLOGICAL TESTS
RESPONSE SET FACTORS REVEALED BY
FACTOR ANALYSIS OF AN UNCONFOUNDED
ITEM POOL. THREE KINDS OF RESPONSE
SETS ARE
DISCUSSED: ACQUIESCENCE, SOCIAL
DESIRABILITY, AND TENDENCY TO MAKE
DEVIANT (OR COMMON) RESPONSES.
RESULTS ARE COMPATIBLE WITH
STUDIES OF RESPONSE SETS USING MMPI.

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT* ND- 276 410

ND- 282 428

Reprint: Introduction Psychological Studies in Antarctica. ND-A009 450

Perceived Presses -- USAWC Class Psychological Needs and AD-A017 046

Predictive Validity of the Biosystem Personnel Test Battery: Preliminary Analysis,*
AD-A018 979

Participation in a Longitudinal Correlates and Implications of Continued Reprint:

Identification of Psychiatric Vulnerability: An Overview.* AD-A037 476 ND-A027 939

Characteristics of the volunteer for psychological investigations. ABNORMAL PSYCHOLOGY 10- 626 753

The Nature of Objectivity with the Rasch Model. * AD- 754 819 ACCURACY

The effect of non-scored items and retesting of the Taylor ANXIETY

manifest anxiety scale. AD- 467 964

Test Anxiety: Situationally Specific or General.* AD- 746 453

ARMY PERSONNEL

Factor analysis of experimental noncognitive measures of combat potential.

marksmanship of new West Point Personality-leadership correlates of trainfire AD- 609 032 cadets.

AD- 622 296

Development of Psychometric Measures of Student Attitudes Toward Technical Training: Reliability and Factorial ATTITUDES (PSYCHOLOGY) Validity.*

AVIATION PERSONNEL

Methodological Considerations On-Line Contingent Research and Implications for Learning.* Relationship of the Edwards personal preference schedule to success in naval flight training COMPUTER PROGRAMMING AD- 627 011

CORRELATION BETWEEN SUBTEST SCORES IN IPSATIVELY SCORED TESTS.* ON BOUNDS FOR THE AVERAGE CORRELATION TECHNIQUES

AD- 717 400

Significance Test for a Partial Correlation Corrected for Attenuation.* 4D- 695 451

10- 737 696

Application of a psychometricselection for counterinsurgency clinical approach to personnel COUNTERINSURGENCY

AD- 608 804 duty.

DECISION-THEORETIC psychometrics.* DECISION THEORY

4D- 712 409

Interpreting Standardized Test AD- 725 475 Scores.* **EDUCATION**

THE DEVELOPMENT AND USE OF THE PRIMARY AFFECT SCALE (PAS).* AD- 655 651 EMOTIONS

Anger-arousing instructions and the simplex in a personality FACTOR ANALYSIS quest ionnaire. AD- 627 182

Body size, self evaluation, and military effectiveness. NAVAL PERSONNEL AD- 603 578

Personality correlates of two kinds of conforming behavior. PERSONALITY AD- 418 342

=

effects of slanting questionnaire A procedure for reducing the responses toward social acceptability.

dimensions part 1. Psychological Measurement of personality measurement. AD- 468 238

Measurement of personality dimensions part 2. AD- 481 142

dimensions Part IV. Experimental Measurement of personality applications, section A. AD- 482 682

Measurement of personality

dimensions. Part IV. Experimental applications. Section 8.
AD- 483 626

Concept formation and attainment as a function of personality organization.

AD- 608 122

PERSONALITY TESTS

Reprint: Interpersonal exchange as a function of reward/cost and situational factors: expectancy confirmation-disconfirmation.

PHOTOINTERPRETATION
IMPACT OF FEEDBACK ON ACCURACY
OF CONTIDENCE LEVELS ASSIGNED BY
INTERPRETERS.*
AD- 657 583

PROJECTIVE TECHNIQUES
The effect of test set on the Rosenzweig Picture-Frustration test.

AD- 468 193

RELIABILITY
Reprint: Reliability of personality ratings undervried assessment conditions.
AD- 616 148

STATISTICAL TESTS
THE USE OF MULTIVARIATE
REGRESSION USING GUMMY VARIABLES IN
SOCIAL-PSYCHOLOGICAL EXPERIMENTS.*
AD- 640 568

AD- 734 032

STRESS(PSYCHOLOGY)
PLANNED AND INTRINSIC VARIABLES
IN THE SOCIAL PSYCHOLOGICAL
EXPERIMENT.*

SUBMARINE PERSONNEL
SOME GENERAL COMMENTS CONCERNING
PERSONNEL SELECTION FOR HAZARDOUS
DUTY-AFTER SIX YEARS OF RESEARCH IN
SUBMARINE SELECTION.*

TEST CONSTRUCTION(PSYCHOLOGY)
Standardization tudies with the repetitive psychometric measures: determining equivalence of forms.

AD- 466 017

Personality assessment: instructions to the subject and the simplex or Guttman scale. AD- 627 437

*PSYCHOLOGY
PERSONALITY
Measurement of personality
dimensions part 1. Psychological
measurement.

AD- 481 142
Measurement of personality
dimensions part 2. special
problems.
AD- 481 143

*PSYCHOMETRICS
HANDBOOKS
User's Handbook for Confidence
Testing as a Diagnostic Aid in
Technical Training.*

RELIABILITY
Use of Confidence Testing in
Objective Tests,*
AD- 734 031
An Evaluation of the Feasibility
of Confidence Testing as a
Diagnostic Aid in Technical
Training.*

*REACTION (PSYCHOLOGY)

The picture description test, a technique for measuring deviant responses to pictured persons.

AD- 407 084

TIME STUDIES
Correlates of reading speed and
the time required to complete
personality inventories.
AD- 468 191

*READING

AD- 767 383

REASONING FLEXIBILITY IN INTELLECTUAL PERFORMANCE AD- 156 703 *RECRUITERS
Investigation of Goaling Models
for Navy Recruiting.*
An-A039 650

*RECRUITING
Investigation of Goaling Models
for Navy Recruiting.*
AD-A039 650

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CORRELATION OF SCORES DERIVED
FROM SIMULATED SITUATIONS OF INBASKET PERFORMANCE.
AD- 405 626

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PERSONALITY
Reprint: Personality of student
divers.
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*SENSORY DEPRIVATION

PERFORMANCE (HUMAN)
Reprint: Relationship between
perceptual deprivation tolerance
and adequacy of defenses as
measured by the Rorschach.
AD- 700 217

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SOCIAL PSYCHOLOGY
A Study of the Social
Psychological Consequences of the
Announcement to Close Naval
Shipyards. Study 1. Relation of
Personality Measures to Job
Satisfaction and Cohesiveness
Items. Study 2. Reports of
Physical Ailments under Three
Conditions of Job Stress.*

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PERSONALITY
The decision to participate in

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IN THE SOCIAL PSYCHOLOGICAL PSYCHOLOGICAL TESTS EXPERIMENT. .

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A note on the interpretation of psychological distance: Assumed similarity between opposites. MILITARY PERSONNEL SOCIOMETRICS

RETENTION EFFECT OF STRESS ON TALKERS, A PERSONALITY INTELLIGIBILITY
VOICE COMMUNICATION: RETEN
OF IMPROVED INTELLIGIBILITY,*
AD- 656 629 VOICE COMMUNICATION: AD- 656 631

STRESS(PSYCHOLOGY)
VOICE COMMUNICATION: EFFECT OF STRESS ON TALKERS, A PERSONALITY *SPEECH TRANSMISSION STUDY.* AD- 656 631

INDUSTRIAL PSYCHOLOGY
A Study of the Social
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Reprint: Personality factors related to response to social solation and confinement. SCIENTIFIC RESEARCH AD- 697 515

MEASURES OF REACTION TO THREAT OF PHYSICAL HARM AS PREDICTORS OF PERFORMANCE IN MILITARY AVIATION TEST CONSTRUCTION (PSYCHOLOGY) TRAINING,*

Personality of student Reprint: PERSONALITY AD- 686 011 divers. *STUDENTS

Factors Related to Drug Abuse in the Submarine Service. III. Characteristic Biographical Profiles and Related Data. * *SUBMARINE PERSONNEL AD- 777 703

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SOME GENERAL COMMENTS CONCERNING PERSONNEL SELECTION FOR HAZARDOUS DUTY-AFTER SIX YEARS OF RESEARCH IN SELECT ION

VOICE COMMUNICATION: RETENTION OF IMPROVED INTELLIGIBILITY,* AD- 656 629

TRAINING

SUBMARINE SELECTION. + AD- 664 657

Quantitative Scores to Manager The Relation of Verbal and Success.* AD- 783 722 *SUPERVISORS

Participation in a Longitudinal Correlates and Implications of Continued Reprint: Survey. *SURVEYS

INDIVIDUAL BEHAVIOR IN A SIMULATED PANIC SITUATION.* +SURVIVAL (PERSONNEL) AD-A027 939 BEHAVIOR

Methodological Considerations in On-Line Contingent Research and Implications for Cearning.* ADAPTIVE SYSTEMS AD- 717 400

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Similarity, Self-Esteem and Reactions to Aid in a Simulated *TEST CONSTRUCTION (PSYCHOLOGY) Decision Making Task. *

Research on Assessing Human Abilities.* AD- 772 631 AD-A015 027

CONFIDENCE TESTING AT THE ACADEMIC INSTRUCTOR COURSE OF THE AIR UNIVERSITY: AUGUST AND SEPTEMBER 1968,* AIR FORCE TRAINING AD- 685 178

A NEW TOOL CONFIDENCE TESTING: FOR MEASUREMENT, * DECISION THEORY

EXPERIMENTAL DATA

Personality Dimensions Derived from Multiple Instruments.* AD- 716 628

IMPRESSION FORMATION AS A MEASURE OF THE COMPLEXITY OF CONCEPTUAL STRUCTURE.* PERSONALITY TESTS AD- 659 962

Personality assessment: instructions to the subject and the A Simple Confidence Testing simplex or Guttman scale. PSYCHOLOGICAL TESTS AD- 737 113 AD- 627 437

A procedure for reducing the effects of signifing questionnaire responses toward social acceptability. RELIABILITY A5- 468 238

CONTINUING CLASSROOM USE OF ITEM ANALYSIS BASED ON CONFIDENCE RESPONSES,* CONFIDENCE TESTING, + AD- 685 181 AD- 685 182

Standardization tudies with the repetitive psychometric measures: determining equivalence of forms. STANDARDIZATION

PERSONALITY

SYSTEMS OF CONFIDENCE WEIGHTING: THEORY AND PRACTICE, * AD- 685 180 THEORY

EFFECTIVENESS
THE EFFECTS OF MENTAL HYGIENE
FILMS ON SELF-REGARDING ATTITUDES.
(RAPID MASS LEARNING). *TRAINING FILMS AD- 640 884

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Reprint: Criteria and transfer PSYCHOLOGICAL TESTS of training. AD- 645 666

NAVAL PERSONNEL
The Navy Advisor Profile AD- 732 754 *VIETNAM

Correlations between dynamic visual acuity and personality *VISUAL PERCEPTION AD- 467 968 TRACKING traits.

TRANSCRIBER CONFIDENCE IN RELATION TO ACCURACY OF TRANSCRIPTION.* *VDICE COMMUNICATIONS INTELLIGIBILITY AD- 642 544

Effects of affective picture stimuli on the learning, perception, and affective scale values of previously neutral words. WORD ASSOCIATION LEARNING

Measures of verbal fluency and Learning and Personality, and Language (Symbolic) Behavior herapy,* AD- 720 350 SELECT ION

paired associate learning: A pilot AD- 620 423

ZOMOS D-14 UNCLASSIFIED

ANGER-AROUSING INSTRUCTIONS AND THE SIMPLEX IN A PERSONALITY QUESTIONNAIRE, AD- 627 182

APPLICATION OF A PSYCHOMETRIC-CLINICAL APPROACH TO PERSONNEL SELECTION FOR COUNTERINSURGENCY AD- 608 804

THE AUTOBIOGRAPHY AND VOCATIONAL DEVELOPMENT Background and Personality Characteristics Related to Student Satisfaction and Performance in Field Medical Service School

Betting Preferences and Personality Characteristics of Navy Divers. AD- 716 313

BODY SIZE, SELF EVALUATION, MILITARY EFFECTIVENESS, AD- 603 578 CHARACTERISTICS OF THE VOLUNTEER FOR PSYCHOLOGICAL INVESTIGATIONS. AD- 626 753 A COMPARISON OF NEED-ACHIEVEMENT STORIES WRITTEN BY EXPERIMENTALLY ''RELAXED'' AND ''ACHIEVEMENT-ORIENTED' SUBJECTS: EFFECTS OBTAINED WITH NEW PICTURES AND REVISED SCORING CATEGORIES AD- 147 362

a Predictor of Reliable Personality The Comrey Validity Check Scale as est Data. AD-A045 580

CONCEPT FORMATION AND ATTAINMENT AS

A FUNCTION OF PERSONALITY ORGANIZATION. AD- 608 122 A NEW TOOL FOR CONFIDENCE TESTING: MEASUREMENT, AD- 695 849

AUGUST AND SEPTEMBER CONFIDENCE TESTING AT THE ACADEMIC INSTRUCTOR COURSE OF THE AIR UNIVERSITY: AD- 685 178 CONFIDENCE TESTING AT THE DFFICER TRAINING SCHOOL, LACKLAND AIR FORCE BASE: SEPTEMBER 1968,

CONSTRUCTION OF SELF-DESCRIPTION BLANK TO SELECT ARMY DRIVERS

5 CONTINUING CLASSROOM USE CONFIDENCE TESTING, ND- 685 181 Correlates and Implications of Continued Participation in Longitudinal Survey. AD-A027 939 CORRELATES OF READING SPEED AND THE TIME REQUIRED TO COMPLETE PERSONALITY INVENTORIES AD- 468 191

SIMULATE SITUATIONS OF IN-BASKET CORRELATION OF SCORES DERIVED FROM PERFORMANCE. . AD- 405 626

CORRELATIONS BETWEEN DYNAMIC VISUAL ACUITY AND PERSONALITY TESTS.

CRITERIA AND TRANSFER OF TRAINING, AD- 645 666

DECISION-THEORETIC PSYCHOMETRICS

SMALL GROUPS EXPERIMENTS: PATTERNS THE DECISION TO PARTICIPATE IN OF SELF-DISCLOSURE AND THE VOLUNTEER.

AD- 605 752

A DESCRIPTION OF THE PERSONALITY CHARACTERISTICS OF ENLISTED VOLUNTEERS FROM THE FOURTH, FIFTH, AND SIXTH US ARMY AREAS, 1965 AD- 800 334

DETERMINANTS OF RELIABILITY IN PERSONALITY RATINGS, AD- 616 455

Differences Between Individuals as A Determination of Neurological Psychological/Motivational Related to their Differences. AD-A015 961

PRIMARY AFFECT SCALE (PAS). THE DEVELOPMENT AND USE AD- 655 651 The Development of a Measure of State Epistemic Curiosity. AD- 728 984

TESTS FOR NAVAL OFFICER SELECTION. THE DEVELOPMENT OF PERSONALITY AD- 710 023

CRITERION OF APTITUDE FOR SERVICE FOR NAVAL OFFICER SELECTION. I. ANALYSIS OF U. S. NAVAL ACADEMY DEVELOPMENT OF PERSONALITY TESTS AD- 710 018

Reliability and Factorial Validity. Development of Psychometric Measures of Student Attitudes Toward Technical Training: AD- 723 314

DEVELOPMENT OF SELF-REPORT TESTS TO IDENTIFIED FROM PEER NOMINATIONS MEASURE PERSONALITY FACTORS AD- 267 779

DIFFERENTIAL RESPONSE TO APPRAISAL AND GOAL SETTING AS A FUNCTION OF SELF, INTERACTION AND TASK ORIENTATION. AD- 600 296

DISCOVERY AND DEVELOPMENT OF MEASUREMENT SCALES FOR THE DIMENSIONS OF ANXIETY. AD- 659 423 DISPERSION ANALYSIS AND THE SEARCH FOR EDUCATIONAL GOALS IN COLLEGE: A STUDY IN DUPLICATE AD- 282 532

Disposition and Organizational Effectiveness of Personality Disorders in a Military Setting, AD-A037 319 'HE EFFECT OF NON-SCORED ITEMS AND RETESTING ON THE TAYLOR MANIFEST ANXIETY SCALE. 4D- 467 964

EFFECTS OF AFFECTIVE PICTURE
STIMULI ON THE LEARNING,
PERCEPTION, AND AFFECTIVE SCALE
VALUES OF PREVIOUSLY NEUTRAL WORDS. AD- 601 411

THE EFFECTS OF MENTAL HYGIENE FILMS ON SELF-REGARDING ATTITUDES. (RAPID MASS LEARNING). AD- 640 884 EFFECTS OF PERSONALITY AND OWN STAND ON JUDGMENT AND PRODUCTION OF STATEMENTS ABOUT A CENTRAL ISSUE. AD- 617 924

The Effects of Personality Traits on Experimental Games. AD- 740 556

(personality Evaluation and the EVALUATION DE LA PERSONNALITE ET SITUTATION DE SELECTION Selection Situation), 4D- 686 872

Confidence Testing as a Diagnostic Aid in Technical Training. An Evaluation of the Feasibility of AD- 734 032 EXPLORATORY INVESTIGATION OF THE RELATIONSHIP BETWEEN FOUR PERSONALITY MEASURES AND VOLUNTARY RESIGNATION FROM AVIATION TRAINING, AD- 424 212

FACTOR ANALYSIS OF EXPERIMENTAL NONCOGNITIVE MEASURES OF COMBAT POTENTIAL, AD- 609 032

Multiphasic Personality Inventory. Factors Related to Drug Abuse in Personality Trait Patterns as Delineated by the Minnesota the Submarine Service. II. AD- 763 401

Factors Related to Drug Abuse in the Submarine Service. III. Characteristic Biographical Profiles and Related Data.

FLEXIBILITY IN INTELLECTUAL PERFORMANCE AD- 156 703 GENERALIZABILITY OF GAME PLAYING AD- 646 377 SKILL.

Vulnerability: An Overview, AD-A037 476 Identification of Psychiatric

DIAGNOSED AS PERSONALITY AND CHARACTER DISORDERS, THROUGH THE USE OF THE PROVERBIAL ATTITUDES THE IDENTIFICATION OF YOUNG LADIES

AD- 283 057

9 CONFIDENCE LEVELS ASSIGNED BY IMPACT OF FEEDBACK ON ACCURACY INTERPRETERS.

AD- 657 583

IMPRESSION FORMATION AS A MEASURE OF THE COMPLEXITY OF CONCEPTUAL STRUCTURE. AD- 659 962 INDIVIDUAL BEHAVIOR IN A SIMULATED PANIC SITUATION.

AD- 661 356

INTERPERSONAL RELATIONSHIPS INFORMATION PROCESSES IN AD- 405 684 INSTRUCTIONS AND THE SIMPLEX IN PERSONALITY ASSESSMENT. AD- 627 437

INTELLIGENCE IN TASK PERFORMANCE, AD- 662 092 THE INTERACTION OF PERSONALITY AND

INTERPERSONAL EXCHANGE AS A FUNCTION OF REWARD/COST AND SITUATIONAL FACTORS: EXPECTANCY CONFIRMATION-DISCONFIRMATION AD- 675 769

Interpreting Standardized Test AD- 725 475 Scores.

Introduction, Psychologica Studies in Antarctica, AD-A009 450 Investigation of Goaling Models for Navy Recruiting. AD-A039 650

THE GRADUATE RECORD EXAMINATION AND CERTAIN PERSONALITY OR INTEREST TESTS IN PREDICTING ACADEMIC AN INVESTIGATION OF THE VALIDITY OF CURRICULUM OF THE UNITED STATES PERFORMANCE IN THE MANAGEMENT NAVAL POSTGRADUATE SCHOOL, AD- 480 892

ITEM ANALYSIS BASED ON CONFIDENCE

Learning and Personality, and Language (Symbolic) Behavior Therapy,
AD- 720 350

A MACHINE SEARCH FOR MODERATOR VARIABLES IN MASSIVE DATA AD- 271 148 Manager Development: A Conceptual Model. AD-A025 462 THE MEASUREMENT OF CONFIDENCE AND AD- 620 183

The Measurement of Food Attitudes and Personality Characteristics of U.S. Air Force Personnel in Alaska.

THE MEASUREMENT OF FOUR SYSTEMS OF PERSONALITY STRUCTURE VARYING IN LEVEL OF ABSTRACTNESS. (SENTENCE COMPLETION METHOD)
AD- 288 257

THE MEASUREMENT OF HUMAN NEEDS AD- 108 613

THE MEASUREMENT OF INDIVIDUAL
DIFFERENCES IN PERCEIVED
PERSONALITY TRAIT RELATIONSHIPS AND
THEIR RELATION TO CERTAIN
DETERMINANTS
AD- 401 025

MEASUREMENT OF PERSONALITY
DIMENSIONS. PART I. PSYCHOLOGICAL
MEASUREMENT.

MEASUREMENT OF PERSONALITY
DIMENSIONS. PART II. SPECIAL
PROBLEMS.

MEASUREMENT OF PERSONALITY
DIMENSIONS. PART IV. EXPERIMENTAL
APPLICATIONS. SECTION A,
AD- 482 682

MEASUREMENT OF PERSONALITY
DIMENSIONS. PART IV. EXPERIMENTAL
APPLICATIONS. SECTION B,
AD- 483 626

MEASURES OF REACTION TO THREAT OF PHYSICAL HARM AS PREDICTORS OF PERFORMANCE IN MILITARY AVIATION TRAINING, MEASURES OF VERBAL FLUENCY AND PAIRED ASSOCIATE LEARNING: A PILOT STUDY.

AD- 620 423

Methodological Considerations in On-Line Contingent Research and Implications for Learning. AD- 717 400

MILITARY SMALL GROUP PERFORMANCE UNDER ISOLATION AND STRESS. CRITICAL REVIEW IV. SELECTION, INDOCTRINATION, AND TRAINING FOR ARCTIC REMOTE DUTY

MOTIVATIONAL AND INCENTIVE FACTORS IN SOCIALLY INFLUENCED BEHAVIOR AD- 290 262

AD- 286 517

The Nature of Objectivity with the Rasch Model. AD- 754 819 Navigator-Observer Selection
Research: Development of New Air
Force Officer Qualifying Test
Navigator-Technical Composite.
AD-A042 689

The Navy Advisor Profile Report, AD- 732 754

A NEW METHOD FOR PREDICTING

UNCLASSIFIED ZOMOS

PERFORMANCE, AD- 708 189 A NOTE ON THE EFFECT OF TEST SET ON THE ROSENZWEIG PICTURE-FRUSTRATION TEST, AD- 468 193

A NOTE ON THE INTERPRETATION OF PSYCHOLOGICAL DISTANCE: ASSUMED SIMILARITY BETWEEN OPPOSITES, AD- 410 775

ON BOUNDS FOR THE AVERAGE CORRELATION BETWEEN SUBTEST SCORES IN IPSATIVELY SCORED TESTS.

AD- 695 451

PAST EXPERIENCE, SELF EVALUATION, AND PRESENT ADJUSTMENT, AD- 432 091 PERCEPTION OF LEADERSHIP IN SMALL GROUPS AD- 299 717 PERCEPTION OF LEADERSHIP IN SMALL GROUPS.
AD- 646 769

PERCEPTION OF LEADERSHIP IN SMALL GROUPS; A RANK ORDER INVESTIGATION OF THE EMERGENCE OF THE LEADERSHIP ROLE IN SMALL GROUPS.

PERSONALITY AND ABILITY CORRELATES
OF ACQUIESCENT RESPONSE SET AND
AUTHORITARIAN CONTENT
AD- 202 606

Personality and Performance. AD- 783 775 Personality and Situational Determinants of Leader Behavior AD- 727 129

Personality and Subordinate Role Behavior.

AD-A038 786

An Analysis of the Item Ambiguity Personality Assessment in Aviation: Characteristics of the 16PF and AD- 736 266

PERSONALITY CHARACTERISTICS (EPPS)

OF ANTARCTIC VOLUNTEERS, AD- 814 862 PERSONALITY CORRELATES OF TWO KINDS OF CONFORMING BEHAVIOR, AD- 418 342

PERSONALITY DIFFERENCES AMONG NAVY OCCUPATIONAL GROUPS AD- 644 809 Personality Dimensions Derived from Multiple Instruments.
AD- 716 628

PERSONALITY FACTORS IN THE SELECTION OF CIVILIANS FOR ISOLATED NORTHERN STATIONS, AD- 611 989 PERSONALITY FACTORS IN THE SELECTION OF CIVILIANS FOR ISOLATED NORTHERN STATIONS: A FOLLOW-UP

4D- 650 339

PERSONALITY FACTORS RELATED TO RESPONSE TO SOCIAL ISOLATION AND CONFINEMENT. AD- 697 515 PERSONALITY-LEADERSHIP CORRELATES
OF TRAINFIRE MARKSMANSHIP OF NEW WEST POINT CADETS. AD- 622 296

and Behavior of High and Low LPC Personality, Motivational Systems. persons.

PERSONALITY OF STUDENT DIVERS,

AD- 686 011

MECHANISMS IN INTERPERSONAL DISCLOSURE: MOTIVATIONAL PERSON-PERCEPTION AND SELF-PROCESSES. AD- 694 222 THE PICTURE DESCRIPTION TEST: PRELIMINARY REPORT, AD- 407 084 PLANNED AND INTRINSIC VARIABLES IN THE SOCIAL PSYCHOLOGICAL EXPERIMENT. 4D- 630 951

Biosystem Personnel Test Battery: Predictive Validity of the Preliminary Analysis, AD-A018 979

PERSONALITY CHARACTERISTICS OF AIR TRAFFIC CONTROL SPECIALISTS, VI. INTERACTION OF TRAINING-ENTRY AGE WITH INTELLECTUAL AND PROBLEMS IN AIR TRAFFIC MANAGEMENT: AD- 620 721

PROBLEMS OF RESPONSE CONTAMINATION IN PERSONALITY ASSESSMENT AD- 262 433

EFFECTS OF SLANTING QUESTIONNAIRE RESPONSES TOWARD SOCIAL PROCEDURE FOR REDUCING THE

ACCEPTABILITY. AD- 468 238 Psychological Needs and Perceived Presses -- USAWC Class 1975. AD-A017 046

THE PERSONALITY DISORDERS, AND THE PSYCHO-SOCIAL DEVELOPMENTAL PHASES, PROVERBS TEST

RE-ANALYSIS OF MOSIER'S FACTOR ANALYSIS OF NEUROTIC ITEMS AD- 161 902

(RTS) as it Discriminates between The Recruit Temperament Survey Psychoses, Neuroses, and Personality Disorders.

AD-A003 575

THE RELATION OF SELF-ESTEEM TO INDICES OF PERCEIVED BEHAVIORAL HOSTILITY. AD- 601 412

Quantitative Scores to Manager The Relation of Verbal and AD- 783 722 Success.

IPSATIVE MEASURES OF PERSONALITY RELATIONS BETWEEN NORMATIVE AND AD- 149 600

INTERPERSONAL SUCCESS AND GROUP MEMBER ADJUSTMENT. RELATIONS BETWEEN TASK AND AD- 601 630 THE RELATIONSHIP BETWEEN CERTAIN
PERSONALITY MEASURES AND
DELINQUENCY RATE IN A NAVY SAMPLE AD- 266 344

DEPRIVATION TOLERANCE AND ADEQUACY OF DEFENSES AS MEASURED BY THE RELATIONSHIP BETWEEN PERCEPTUAL RORSCHACH, AD- 700 217

PERSISTENCE, INSOLENCE, AND PERFORMANCE, AS A FUNCTION OF THE RELATIONSHIP BETWEEN GENERAL ABILITY, AD- 662 104 THE RELATIONSHIP OF THE EDWARDS
PERSONAL PREFERENCE SCHEDULE TO
SUCCESS IN NAVAL FLIGHT TRAINING,

Preferences, Personality Measures The Relationships among Measures of Work Orientation, Job Attribute and Abilities.

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AD-A031 795

RELATIONSHIPS BETWEEN PERSONALITY TRAITS, PHYSICAL PROFICIENCY, AND CADET EFFECTIVENESS REPORTS OF AIR FORCE ACADEMY CADETS AD- 264 916

Reliability and Stability of the Comrey Personality Scales, AD-A025 533

CONDITIONS, THE RELIABILITY OF PERSONALITY AD- 616 148

Research on Assessing Human Abilities. AD-A015 027 A RESEARCH STUDY OF THE PREDICTION OF ADAPTABILITY TO THE NAVY AD- 069 503

Classification Techniques, Research to Improve Enlisted AD- 605 281 6 RESPONSE SET AS A MEASURE PERSONALITY AD- 156 771

Seeking Markers for Temperament Factors among Positive and Negative Poles of Temperament Scales. RESPONSE SET FACTORS REVEALED BY FACTOR ANALYSIS OF AN UNCONFOUNDED ITEM POOL AD- 276 410

AD-A003 551

THE SELF-OTHER ORIENTATIONS OF THE MARGINAL MAN. AD- 706 753 SET AND CONTENT SCORES FOR PERSONALITY SCALES AND RESPONSE STYLES IN THE MMPI,

THE SIGNIFICANCE OF ATTITUDES TOWARD PEERS IN DISCRIMINATING BETWEEN NAVAL AVIATION CADETS OF 'HIGH' AND 'LOW' MOTIVATION AD- 468 236

Significance Test for a Partial Correlation Corrected for Attenuation. AD- 737 696 SIMILARITY OF FACTORS UNDERLYING
PEER RATINGS OF SOCIALLY
ACCEPTABLE, SOCIALLY UNACCEPTABLE,
AND BIPOLAR PERSONALITY TRAITS

Similarity, Self-Esteem and Reactions to Aid in a Simulated Decision Making Task. AD- 772 631 Simple Confidence Testing Format. AD- 737 113

Social and Personal Bases of Individuation. AD- 751 109 SOCIAL DESIRABILITY IN A TWO-CHOICE PERSONALITY SCALE AD- 161 906

SOME COGNITIVE FACTORS AFFECTING GROUP CREATIVITY AD- 282 366

RESEARCH IN PERSONNEL SELECTION FOR HAZARDOUS DUTY-AFTER SIX YEARS OF RESEARCH SOME GENERAL COMMENTS CONCERNING SUBMARINE SELECTION.

Perceptions of and Reactions Some Personality Correlates of Task Characteristics. AD-A040 254 SOME PERSONALITY CORRELATES OF TREADMILL PERFORMANCE UNDER PUBLIC AND PRIVATE SURVEILLANCE.

AD- 666 176

REPETITIVE PSYCHOMETRIC MEASURES. I. DETERMINING EQUIVALENCE OF STANDARDIZATION STUDIES WITH THE FORMS.

AD- 466 017

STATISTICAL DESCRIPTION OF CRITERION MEASURES FOR USMC JUNIOR AD- 068 055 OFFICERS

Studies of Performance Assessment and Enhancement. AD- 752 143 A STUDY OF PERSONALITY CORRELATES OF JUDGMENT BEHAVIOR. AD- 711 025

Troubleshooting Performance A Study of the Impact of Personality Differences on AD-A044 259

Close Naval Shipyards. Study 1. Relation of Personality Measures to Job Satisfaction and Cohesiveness Consequences of the Announcement to A Study of the Social Psychological Physical Ailments under Three Conditions of Job Stress. Items. Study 2. Reports of

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Situationally Specific or General. Test Anxiety: AD- 746 453 A TEST PROGRAM FOR TWO ANTARCTIC EXPEDITIONS: 1956-1959

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THE USE OF MULTIVARIATE REGRESSION USING DUMMY VARIABLES IN SOCIAL-PSYCHOLOGICAL EXPERIMENTS. AD- 640 568

User's Handbook for Confidence Testing as a Diagnostic Aid in Technical Training, AD- 731 192 VALIDATION OF PERSONALITY TESTS AS MEASURES OF TRAIT-RATING FACTORS AD- 285 184

VALIDITY OF PERSONALITY INVENTORIES IN THE NAVAL AVIATION SELECTION AD- 467 983 PROGRAM.

VALUE AND PERSONALITY DIFFERENCES
BETWEEN OFFENDERS AND NONOFFENDERS,
AD- 440 133

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T-6 UNCLASSIFIED

SECTION E PSYCHOMOTOR TESTS

SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

SOUTH DAKOTA UNIV VERMILLION DEPT OF PSYCHOLOGY

Uses of Computer-Assisted Instruction in Developing Psychomotor Skills Related to Heavy Machine Operation.

DESCRIPTIVE NOTE: Final rept. Jul 75-Nov 76, DEC 77 76P Phillips , Jeffrey R. ; Berkhout, Jan ; CONTRACT: DAHC19-75-G-0009 TR-77-TH1 2Q761102B74F ARI PROJ:

UNCLASSIFIED REPORT

ESCRIPTORS: *Computer aided instruction, *Psychomotor function, Psychomotor tests, Males, Females, Performance(Human), Training, ESCRIPTORS: Simulation

Heavy machine operation, PE61102A, DENTIFIERS: A study was performed to determine the relative

3 control conditions. Two experimental groups, both restricted to males, were trained under similar practice conditions with the addition of computer monitoring of performance and feedback of supplemental information to the students. One group received terminal feedback of numerical performance instruction based on the study of written materials 2 quality scores following each trail. The other group received continuous feedback of an analytic display (a display of nominal roadspeed against performance patterns and learning abilities under groups were tested for retention of skills after transmission gear-shifting task. No significant instruction proved to be significantly superior the control teaching procedure. (Author) effectiveness of different formats of computer-assisted instruction (CAI) in teaching a differences were found between maie and female psychomotor performance task. A control group combining male and female subjects received and unstructured practice sessions on a heavy elapsed time in the form of an X-Y plot) concurrent with each trial. Both experimental environment. Both forms of computer-assisted transitioning to a non-feedback performance

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Aviator Selection 1919-1977.

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North, Robert A. : Griffin, DESCRIPTIVE NOTE: Interim rept., OCT 77 57P North, Ro

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REPT. NO. NAMRL-SR-77-2 Glenn R.

TASK: XF51525002 F51525 PROJ:

UNCLASSIFIED REPORT

*Performance(Human), Military personnel, Test methods, Predictions, Measurement, Criteria, Psychomotor tests, Perception(Psychology), Personality tests, Behavior, Assessment, Decision making, Speech IDENIFIERS: WU5012DX5X, PE62758N DESCRIPTORS: *Pilots, *Personnel selection,

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33

selection testing methods and assess their predictive improvement. A second purpose is to suggest methods to improve the prediction of aviator success based upon results and findings in the research research. One purpose of this review is to provide literature reviews designed to provide an updated summary of psychological assessment research in aviator selection. The first report was a wide-range description of tri-service aviator specifically related to Navy aviator attrition This report is the second in a series of two literature.

3

PAGE

UNCLASSIFIED

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demands of jobs and assessing the physical capacities

for use of the specific method are given in detail.

of individuals to meet those demands. Instructions Recommendations are made about personnel research,

for appraising the physical and environmental

selection of both Navy and Marine Corps enlisted personnel for service school attendance are

described. An important part of this report is

devoted to a discussion of Manman's 'specific

UNCLASSIFIED

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MAY 76 139P Washburn, Paul V.; Stone, C. Harold; Yoder, Dale; Farrell, William T.; REPT. NO. TR-13 CONTRACT: NO0014-74-A-0436-0001 DESCRIPTIVE NOTE: Technical rept.,

RR0420402 2R04204

UNCLASSIFIED REPORT

3 3 *Marine Corps personnel, *Personnel selection, *Manpower utilization, *Job analysis, Manpower, Classification, Aptitude tests, Psychomotor tests, Assessment, Training, Military training, Performance(Human) IDENTIFIERS: Hanman's specific method, PE61153N, DESCRIPTORS: WUNR151370

tests in the Marine Corps to select Marines for specialized training in service schools is analyzed. Statistical studies of test validities for conditions of jobs that are not readily measured by objective aptitude tests. Reviews are made of characteristics. Primary attention is given to measurements of physical demands and environmental concerning the relationships among earlier worker characteristics data collected by task inventories earlier data collection by the Marine Corps using possibilities of acquiring greater benefit in the areas of Marine Corps classification and assignment by utilizing data collected on worker organizations in this area. Data are presented task inventories, and to the research of other and aptitude test results. The use of aptitude This research was designed to explore the

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB

AD-A044 525 5/10 5/9
AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Validation of a Psychomotor/Perceptual Test Battery.

3

DESCRIPTIVE NOTE: Final rept. Nov 74-Dec 76, JUL 77 22P Hunter, David R. : Maurelli,

JUL 77 22P Hunter, Da Vincent A. ;Thompson, Nancy A. ; REPT. NO. AFHRL-TR-77-28

7719

UNCLASSIFIED REPORT

DESCRIPTORS: *Psychological tests, *Psychomotor Navigators, Trainees, Enlisted personnel, Air Force training, Technology, tests, *Performance tests, Perception(Psychology), Personnel selection, Performance (Human), Predictions, Accuracy, Air Force personnel, Officer personnel,

Validation, Statistical analysis IDENTIFIERS: Academic success prediction, PE62703F, WUAFHRL77191505

3 3

outcomes; however, the joint contribution of all the tests in the battery was, in general, not statistically significant. The reasons for this result are discussed, and comparisons with the comprising the battery for the prediction of success in technical training courses. Analyses of the data indicated that several of the psychomotor/perceptual A battery of seven psychomotor/perceptual tests was in 30 different career fields. The objective of the project was to determine the validity of the tests measures were individually predictive of training undergraduate navigator training (UNT) and Airmen predictive validity of Air Force paper-and-pencil measures are made. Recommendations for subsequent research and development are given. personnel-Officer Trainees slated to attend administered to two samples of Air Force

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND MASS CLOTHING EQUIPMENT AND MATERIALS ENGINEERING LAB AD-A043 835

Clothing and Type of Liner on the Psychomotor The Effects of Layers of Cold Weather Performance of Men.

3

Lockhart, John M. ; Bensel, Technical rept., DESCRIPTIVE NOTE: Te Carolyn K. :

REPT. NO. CE/MEL-171 PROJ: 1L762716AH70 TASK: 02

TR-77/018 MONITOR: NATICK

UNCLASSIFIED REPORT

3 $\widehat{\boldsymbol{\varepsilon}}$ function, Cold weather operations, Cold weather, Cold weather tests, Psychomotor tests, Layers, DESCRIPTORS: *Protective clothing, *Psychomotor Liners, Clothing, Nylon, Polyethylene, fabrics, Performence(Human), Heart rate, Army personnel IDENTIFIERS: Mohair, WU023, ASH70,

outfitted in winter underwear, performed the battery of 14 tasks under each of the following conditions: cold weather system, including both nylon polyester coordination, manual dexterity, and effort exerted for task performance. Sixteen Army enlisted men, differential effects on men's motor performance of psychomotor performance, particularly body flexibility, to a greater extent than the Std. A liners did. In addition, the Std. A liners were rated more favorably by the users and resulted in somewhat lower level of physical exertion, as wearing the clothing layers comprising the Army The dependent variables investigated were body flexibility, rate of movement, psychomotor B liners in the arctic layer. In general, jacket and trousers, (3) plus Std. A liners or Std. B liners in the field layer, (4) plus parks and arctic trousers, (5) plus Std. A or (1) wool shirt and trousers, (2) plus field (Std. A) and mohair frieze (Std. B) liners. This study was conducted to determine the Std. 8 liners impaired certain aspects of represented by heart rate, Std.

UNCLASSIFIED

DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB

PURDUE UNIV LAFAYETTE IND DEPT OF PSYCHOLOGICAL 5/10 AD-A035 623

The Prediction of Job Ability Requirements Using Attribute Data Based upon the Position Analysis Questionnaire (PAQ).

3

Shaw, James B. ; McCormick, DESCRIPTIVE NOTE: Technical rept., 78P 94

CONTRACT: N00014-76-C-0274 .. Ernest

UNCLASSIFIED REPORT

3 3 DESCRIPTORS: *Aptitude tests, *Personnel selection, *Psychomotor tests, *Job analysis, Validation, Performance(Human), Predictions, Questionnaires, Ratings, Jobs, Correlation techniques, Estimates, Behavior, Skills, Criticality IDENTIFIERS: Job attributes, Attributes,

Position analysis questionnaires, WUNR150372

is a structured job analysis procedure which analyzes jobs in terms of 187 job elements, using appropriate rating scales. Ratings of individual elements, in approaches to job component validity have been used, Questionnaire (PAQ) as the basis for deriving estimates of the aptitude requirements of jobs. PAQ validating personnel selection test procedures. In procedure which has most recently been called 'job requirements. Special attention was focused on the dimensions. The other method consisted of rating the relevance of each of many human 'attributes' reach of the individual job elements of the PAQ. This study explores alternative methods of combining the attribute-based data with the job analysis data to derive estimates of job aptitude difficult to apply, investigators suggest using a turn, can be used to derive scores on several job promise. The various approaches have included use those situations where traditional validation is Investigators have suggested alternatives to the and in general research has revealed substantial use of traditional validation procedures for prediction of psychomotor test requirements. of data relating to the Position Analysis Component validity. A number of different

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB AD-A029 850 NATIONAL RESEARCH COUNCIL OF CANADA OTTAWA (ONTARIO) DIV OF MECHANICAL ENGINEERING SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY 6/19

Quarterly Bulletin of the Division of Mechanical Engineering and the National Aeronautical Establishment, Ottawa, 1 April to 30 June, 1976.

REPT. NO. DME/NAE-1976(2)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Foreword in French.

DESCRIPTORS: *Psychomotor tests, *Circadian rhythms, Fatigue(Physiology), Performance(Human), Aeronautical engineering, Experimental design, Systems analysis, Modules(Electronics), Models, Handbooks, *Computerized simulation, *Stress(Physiology), Test and evaluation, Test methods, Sleep, Patterns, Psychomotor function, Flight crews,

IDENTIFIERS: Stressalysers, Announcement

3 3

3 mechanical engineering and the national aeronautical establishment. Partial contents: Computer modeling and simulation handbook, Psychomotor test performance and sleep patterns of aircrew flying transmeridonal routes, and Current projects of the division of

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA

DESCRIPTIVE NOTE: Report bibliography May 61-Apr 76 Performance Measurement

3

SEP 76 547P REPT. NO. DDC/BIB-76/08 PROJ: DSA-658-015

3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. DDC-TAS-72-7 dated Sep 72, AD-749 100.

Predictions, Military training, Training devices, Psychological tests, Test methods, Psychomotor tests, Stress(Psychology), Stress(Physiology), Motivation, Training Performance (Human), *Bibliographies, *Military personnel, Achievement tests, Aptitude tests, DESCRIPTORS: *Performance tests,

3

3 This bibliography contains studies which aid in measuring and assessing data relevant to human performance. Training devices, aptitude and achievement tests, special clothing and equipment are environmental, physical and stress factors, which not all employed to establish the criteria used in these only evaluate performance, but under certain conditions may predict it. Corporate Author-Monitoring Agency, Subject, Title and Personal Author are provided. (Author) studies. There are also references on

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DDC REPORT BIBLIOGRAPHY ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

-A025 431 5/10 9/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF AD-A025 431

Investigation and Evaluation of a Zero Input Tracking Analyzer (ZITA).

3

James, Ronald Edward ; Master's thesis, 47P DESCRIPTIVE NOTE: MAR 76

UNCLASSIFIED REPORT

*Psychomotor tests, *Optical tracking, selection, Performance (Human), Learning curves, *Data processing, Visual perception, Test construction(Psychology), Pilots, Personnel Memory(Psychology), Man machine systems, Stress(Psychology), Stress(Physiology), Information processing, Decision making, DESCRIPTORS:

DENTIFIERS: Short term memory

33

distinguishing between subjects with respect to this This study was designed to evaluate a psychomotor testing instrument known as the ZITA (Zero Input Tracking Analyzer). This instrument was being considered as a prediction device in the aslection of applicants for the U. S. Navy aircrew training program. Analysis of the data obtained from six subjects (all U. S. Navy of the ZITA that became apparent was the amount of particular psychomotor task. A major disadvantage time (approximately 2 hours) required before learning curves were leveled out and the rate at pilots) over 26 hours of testing, showed the machine capable of consistent results in

SEARCH CONTROL NO.

CIVIL SERVICE COMMISSION WASHINGTON D C PERSONNEL RESEARCH AND DEVELOPMENT CENTER 9/5 AD-A024 734

Proceedings of the Conference on Computerized Adaptive Testing (1st) Washington, D. C., June 12 and 13, 1975,

3

MAR 76 126P Clark, Cynthia L. REPT. NO. Professional Ser-75-6

Availability: Supt. of Documents, GPO Wash., D. C. 20402. HC \$2.40. UNCLASSIFIED REPORT

*Computer applications, *Adaptive Sequential analysis, Computers, Bayes theorem, Monte Carlo method, Theory, Errors, Strategy, IDENTIFIERS: *Computerized testing, *Adaptive testing, Tailored testing systems, *Psychomotor tests, Test methods, Analysis of variance, Memory(Psychology) DESCRIPTORS:

3 3

> of Item Bank Characteristics; Reflections on Computerized Tests to Add New Dimensions to Bayesian Tailored Testing and the Influence Latent Trait Theory and Tailored Testing; Incomplete Orders and Computerized Testing; Adaptive Testing; Computer-Assisted Festing: an Orderly Transition from Theory to Practice; Five Years of Research: Is Computer-Assisted Testing Feasible; Effectiveness of the Ancillary Estimation Exploratory Study; A Broad-Range Tailored Adaptive Testing Research at Minnesota: Overview, Recent Results, and Future Directions; Adaptive Testing Research at Minnesota: Some Properties of a Bayesian Sequential Adaptive Mental Testing lest of Verbal Ability; Some Likelihood Weiss' Stradaptive Testing Model; Using Strategy; An Empirical Investigation of the Measurement of Abilities Which are Contents: The Graded Response Model of Important for On-Job Performance: an Procedure; and Item Parameterization Procedures for the Future. Functions Found in Tailored Testing;

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which different individuals develop their learning

Curve. (Author)

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

9/2 516 5/10 9/2 MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY AD-A024 516

Computerized Ability Testing, 1972-1975.

3

DESCRIPTIVE NOTE: Final rept. Mar 72-Sep 75, APR 76 24P Weiss, David J.; CONTRACT: NOO014-67-A-0113-0029 PROJ: NR-150-343, RR042-04 TASK: RR042-04-01

UNCLASSIFIED REPORT

DESCRIPTORS: *Computers, *Psychomotor tests, Test and evaluation, Test methods, Adaptive systems, Computerized simulation, Automation, Data processing, Programmed instruction, Sequential analysis, Computer applications, Literature surveys, Mathematical models IDENTIFIERS: *Ability testing

implications of the research findings and methods for future research n computerized adaptive testing are described. Also included are abstracts of the eighteen Technical Reports derived from this research program's original research to objectives are described, and the research approach is summarized and related to the eighteen Technical Reports produced under this contract. Twenty-one computerized ability testing are summarized. The major research findings are presented. The Three and one-half years of research on research. (Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

RIVERSIDE RESEARCH INST NEW YORK

The Effects of Division of Attention upon Required Kinesthetic and Proprioceptive Discrimination,

3

Weitzman, Donald O. Notterman, Joseph M. ; JAN 76

CONTRACT: NO0014-71-C-0225

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Princeton Univ., N. J. Dept. of Psychology.

reactions, *Discrimination, *Attention, *Interference, Multiple operation, Psychomotor function, Proprioception, Feedback, Information processing, Psychomotor tests, Stimuli, Conditioned response, Statistical analysis, Performance(Human), Awareness, Learning, DESCRIPTORS: *Performance(Human), *Motor Conditioning (Learning)

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an isometric control - with its attendent feedback This report describes a program of research on the function of representative interfering variables, kinesthetically-controlled motor act. Pressure on acquisition and execution of kinesthetically- or proprioceptively- (the terms are here used interchangeably) controlled motor skills, as a some of which have been termed 'stressors.' The research is addressed more specifically to the effects of division of attention upon a is the primary task, and provides the basis for analysis.

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ZOMOB SEARCH CONTROL NO. N-4020 544 5/10 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX DDC REPORT BIBLIOGRAPHY

Development of an Enlisted Psychomotor/ Perceptual Test Battery.

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DESCRIPTIVE NOTE: Final rept. Jun 72-Jul 75, NOV 75 45P Hunter. David R.; REPT. NO. AFHRL-TR-75-60 PROJ: AF-7719

UNCLASSIFIED REPORT

771915

TASK:

*Perception(Psychology), *Performance tests, Test construction(Psychology), Performance(Human), Low level, High rate, Air Force personnel, Psychological tests, DESCRIPTORS: *Psychomotor tests,

DENTIFIERS: Low aptitude personnel, High aptitude personnel, Test batteries(Psychology)

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3 characteristics of the psychomotor/perceptual battery and to compare the performance of 'high' and 'low' Texas. A paper-and-pencil battery of 21 tests was also administered to the airmen. The objectives of A battery of seven psychomotor/perceptual tests, developed by Biotechnology, Incorporated, of Falls Church, Virginia, was administered to 380 airmen assigned to the 3701 Personnel Processing Squadron at Lackland Air Force Base, seven psychomotor/perceptual tests, the project were to determine the psychometric ability airmen (as determined by Armed Forces Qualification Test scores).

UNCLASSIFIED

SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY 1-A018 880 5/9 5/10 NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO AD-A018 880 CALIF

Training Strategies in the Acquisition of A Comparison of Adaptive and Nonadaptive Physically Complex Psychomotor Skill.

3

Interim rept., Jul 74-Jul 75, P Riedel, James A. ; Abrams. Macy L. ; Post, David ; DESCRIPTIVE NOTE:

NPRDC-TR-76-24 PROJ: PFS

PF55-522-004 PF55-522 TASK:

UNCLASSIFIED REPORT

devices, *Naval personnel, Naval training, Arc welding, Adaptive training, DESCRIPTORS: *Psychomotor function, *Training DENTIFIERS: Nonadaptive training, Complexity Perception(Psychology), Simulation, Statistical analysis, Skills, Scheduling, Feedback, Psychomotor tests, Psychological

33

nonadaptive (fixed) strategies to facilitate acquisition of a physically complex psychomotor skill was investigated. In addition, task and practice difficulty levels were studied. Sixty subjects were each given pre- and posttraining tests and the data Suggest no significant difference between fixed and were evaluated by analysis of covariance. Results The relative effectiveness of using adaptive and adaptive techniques for the skill studied. The results are discussed and recommendations made (Author)

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ZOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF 6/19 AD-A018 321

The Effect of Breathing 100 Percent Oxygen on Short-Term Memory of Military Officers While Under Heat Stress.

Krubsack, Robert Louis; DESCRIPTIVE NOTE: Master's thesis, SEP 75 42P Krubsack, R

UNCLASSIFIED REPORT

medicine Respiration, Experimental data, Dxygen masks o, Physiological effects, Psychomotor tests, exposure(Physiology), Breathing apparatus, Response, Laboratory equipment IDENTIFIERS: Medical research, *Oxygen toxicity, *Stress(Physiology), *Memory(Psychology), Oxygen, Aviation medicine, Theses, Military DESCRIPTORS: *Heat stress(Physiology), Short term memory

3 3

determine if breathing 100 percent oxygen had any effect on the short term memory of a subject under heat stress. Analysis of the data collected from 10 subjects under heat stress indicated breathing pure oxygen had no effect in the 15 minute period on short back, two-back, and three-back from a randomly presented list of four different symbols while breathing either 100 percent oxygen or atmospheric air with an oxygen mask in a heat stressful were required to respond to symbols presented one-Using a serial short term memory task, subjects

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

-A017 537 5/10 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF AD-A017 537

Human Performance and Biorhythms,

3

Cobb, William Wilson , Jr; DESCRIPTIVE NOTE: Master's thesis, 40b

3

UNCLASSIFIED REPORT

DESCRIPTORS: *Performance(Human),
*Rhythm(Biology), *Theses, Psychomotor tests,
Memory(Psychology), Chi square test,
Nonparametric statistics, Statistical analysis, Stimuli, Response(Biology), Regression analysis, Sine waves (DENTIFIERS: Response analysis testers

33

performance and biorhythmic cycles existed for the subjects observed. Analysis of the data using the Chi-Square Contingency Test collected from 4 subjects showed a significant dependency at the .05 level existed between 2 of 3 biorhythmic cycles and human performance as well as near significant dependency existing for the third cycle and human performance. Further analysis using the X squared one sample test showed no significance between critical days and categories of performance at the .05 level. (Author) biorhythms were studied in the laboratory for a fifteen week period. The purpose of the experiment Using a serial memory task, human performance and was to determine whether dependency petween human

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB

AD-A016 722 5/10 SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX NEPTUNE: Modifications and Current Applications.

3

DESCRIPTIVE NOTE: Final rept. Jun 73-Dec 74,
AUG 75 39P Benel,Russell A.; Storm,
William F.; REPT. NO. SAM-TR-75-20

UNCLASSIFIED REPORT

DESCRIPTORS: *Psychomotor tests, Performance(Human), Job analysis, Psychological tests Recent modifications of the Neptune psychomotor test apparatus and a brief description of individual tasks are presented. Currently available system workload program listings and typical learning data under these workloads are discussed. Standardized instructions for the Neptune operator console are provided. Previous Neptune use is documented in an annotated bibliography.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL ND. ZOMOB

AD-A014 978 19/4 6/17
ARMY NATICK DEVELOPMENT CENTER MASS CLOTHING EQUIPMENT AND MATERIALS ENGINEERING LAB

The Effects of Body Armor and Load-Carrying Equipment on Psychomotor Performance.

 $\tilde{\epsilon}$

DESCRIPTIVE NOTE: Technical rept.,
MAY 75 120P Bensel, Carolyn K.; Lockhart,
John M.;
REPT. NO. CEMEL-141

REPT. NO. CEMEL-141 PRDJ: DA-1-T-762716-AH-70 TASK: 1-T-762716-AH-7002 MONITOR: NDC TR-75-92-CEMEL

UNCLASSIFIED REPORT

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DESCRIPTORS: *Body armor, *Harnesses, Psychomotor tests, Performance(Human), Human factors engineering, Soldiers, Enlisted personnel, Work, Flexible materials, Degradation, Positioning reactions, Interference, Cold weather, Wetting, Manual operation, Performance tests, Protective Ciothing, Infantry, Human body, Heart, Rates, Questionnaires, Acceptability
IDENTIFIERS: Coordination, Manual dexterity

33

This study was conducted to determine the differential effects of load-carrying equipment (LCE) and two types of fragmentation protective body armcr (STD B and CM/ICM) on body flexibility, rate of movement, psychomotor coordination, manual dexterity, and effort exerted for task performance. Twelve Army enlisted men, outfitted in a modified cold-wet uniform, performed the battery of 14 tasks under each of the following clothing conditions: cold-wet uniform alone; STD B Armor: CM/ICM Armor: LCE; STD B Armor and LCE: In general, performance levels on the task battery were highest when the cold-wet clothing was worn without any additional equipment and lowest when STD B Armor was worn in conjunction with LCE. Body affected by the clothing conditions. Flexibility movements were hampered to some extent by the addition of either armor or LCE and, to a greater

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extent, by the combination of both.

SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX 6/16 AD-A008 227

Human Amino Acid Excretion Patterns during and Following Prolonged Multistressor Tests,

Jesus B., Jr.; Ellis, James P., Jr.; Storm, REPT. NO. SAM-TR-74-351

Availability: Pub. in Aviation, Space and Environmental Medicine, v46 n2 p173-178 Feb 75. UNCLASSIFIED REPORT

Response(Biology), Fatigue(Physiology), Endocrine glands, Reprints IDENTIFIERS: Multidimensional pursuit apparatus, DESCRIPTORS: *Amino acids, *Stress(Physiology), *Stress(Psychology), Flight, Excretion, Simulation, Hypoxia, Measuring instruments, Psychomotor tests, Urine, Bioassay, Nitrogen compounds, Metabolites, Recovery, Sensitivity,

3 factorial experiment. Physiologic data were collected during a two-day baseline period, four 36-hour experimental periods, and four recovery periods. The experimental conditions were as follows:

(a) uncomplicated simulated flight, (b) flight complicated by extreme environmental dryness, sensitivity, clearly differentiating the effects of the single, double, and triple stressor complexes. They also differentiated the physiologic states in the flight and recovery periods. (Author) metabolites, including individual amino acids, were each work period. Five other men were studied under examined for sensitivity to the stressor complexes. baseline conditions and during a 48-hour simulated performing on psychomotor measuring devices during flight complicated by hypoxia. Uninary nitrogenous alternately worked two hours and rested two hours, As a feasibility study, two men were tested in a series of simulated flights which comprised a Certain of the amino acids had high stressor (c) flight complicated by mild hypoxia, and (d) flight complicated by both dryness and hypoxia. During each flight the subjects

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20M08 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX 6/19 AD-A007 727

Laboratory Assessment of Pilot Performance Using Nonrated Subjects at Three Alcohol Dose Levels.

Ξ

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DESCRIPTIVE NOTE: Final rept. Mar 72-Apr 74,
DEC 74 223P Henry, Peter H.; Flueck,
James A.; Lancaster, Malcolm C.;
REPT. NO. SAM-TR-74-27

AF-7930 793009 PROJ: TASK:

UNCLASSIFIED REPORT

Ingestion(Physiology), Performance(Human), Alcohols, Psychomotor function, Psychomotor tests, Flight simulation, Laboratory test, Experimental *Aviation medicine, *Pilots, Drugs, DESCRIPTORS:

IDENTIFIERS: *Alcohol ingestion

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scored during 1-hour simulations of cross-country instrument flight, using special purpose analog and digital logic. The sensitivity of this system was assessed by observing the acute effects of three graded doses, 0.3, 0.6, and 0.9 gm/kg body weight, of ethyl alcohol on scored performance. Three separate experiments were conducted using a total of To evaluate the effects of drugs and environmental automated system was developed around a Link GAT-1 flight trainer. Performance was electronically stresses on pilot psychomotor performance, an 22 male subjects, ages 21 to 29.

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SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

AD-A004 780 5/9 SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX

An Automated System to Assess Pilot Performance in a Link GAT-1 Trainer.

3

Henry, Peter H. ; Turner, Roy DESCRIPTIVE NOTE: Final rept. Mar 71-May 72, OCT 74 70P

A. :Matthie, Robert B. ; REPT. NO. SAM-TR-74-41 PROJ: AF-7930

793009

UNCLASSIFIED REPORT

training, Assessment, Training devices, Transfer of training, Pilots, Psychomotor tests DESCRIPTORS: *Performance(Human), *Flight

3

laboratory approximation of a cross-country flight on instruments in a single-engine light aircraft. report covers the basic design and circuitry details. Results of performance tests using this system are Performance is scored electronically in terms of how closely subjects are able to stay within the tolerances prescribed for various flight instruments as they execute the series of maneuvers. Major components of this non-computer based system are: This system automatically presents subjects with an hour-long series of maneuver requests providing a developed around the Link GAT-1 trainer that permits laboratory assessment of pilot performance. trainer; (3) a central control station; (4) an assembly of special-purpose analog and digital A prototype control and scoring system has been logic for error detection and scoring; and (5) (1) two Link GAT-1 trainers; (2) special display panels mounted in the cockpit of each paper tape perforators for data logging. This reported elsewhere.

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20M08 SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

1- 806 432 5/10 ARMY MEDICAL RESEARCH LAB FORT KNOX AD- 806 432

A FIELD STUDY OF A VIGILANCE TASK

3

Loeb, Michel ; Jeantheau, APR 56 9P Loek Gatriel :Weaver, Lelon A. ; REPT. NO. USAMRL-230

PROJ: USAMRL-6-95-20-001

UNCLASSIFIED REPORT

33 DESCRIPTORS: (*ATTENTION, ARMY PERSONNEL), EFFICIENCY, PERFORMANCE(HUMAN), REACTION(PSYCHOLOGY), HEAT, NOISE, VIBRATION, STRESS(PSYCHOLOGY), DISPLAY SYSTEMS, CONTROL PANELS, ARMORED VEHICLES, PASSENGER VEHICLES, MOTION, CARGO VEHICLES, PSYCHOPHYSIOLOGY, PSYCHOMOTOR TESTS (IDENTIFIERS: M-59 VEHICLES

rapidly to obscure signals occurring randomly under conditions of heat; heat, noise and vibration; noise Subjects in troop carriers were required to respond and vibration and under a control condition. Noise vibration produced an additional but transitory decrement, but heat alone did not produce a significant change. No general temporal effect was response time. Heat in combination with noise and and vibration produced a significant increase in observed. (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF AD- 787 446

The Effects of Learning Through Replications of a Simple Serial Task

3

Stevens, John Bradford; DESCRIPTIVE NOTE: Master's thesis, 65P

UNCLASSIFIED REPORT

MEMORY(Psychology), *Psychomotor tests, Memory(Psychology), Test methods, Performance(Human), Hysteresis, Theses, Habituation learning DESCRIPTORS:

3 existed a learning process through replication in a simple serial task. Further, it was of interest to investigate the presents of a hysteresis phenomenon with decreasing demand after a channel capacity overload. (Modified author abstract) An experiment was performed to ascertain if there

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ZOMOB DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. AD- 783 237

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX

Physiologic Testing of the T-43 Passenger Oxygen Mask.

3

JUN 74 15P Pepelko, William E.; Storm, William F.; Dixon, Gene A.; Robertson, William DESCRIPTIVE NOTE: Final rept. Dec 73-Jan 74, JUN 74 15P Pepelko, William E.;

REPT. NO. SAM-TR-74-9 PROJ: AF-7164 TASK: 716417

UNCLASSIFIED REPORT

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JESCRIPTORS: *Oxygen masks, Reliability, Respiration, Gas flow, Test methods, Altitude chambers, Psychomotor tests, Hypoxia, Jet training planes, Military aircraft IDENTIFIERS: T-43 aircraft DESCRIPTORS:

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The mean inspired and expired pressures in the mask The passenger oxygen mask planned for use in the I-43 aircraft was tested for 3 hours at 25,000 ft equivalent altitude (282 mm Hg) in an altitude chamber. Ambient temperature was maintained at 65F. Six volunteer subjects were used. Inspired P(D2) averaged 195 mm Hg with a minimum of 122 mm Hg for any subject averaged over a 10-minute period. End-expired P(O2) averaged 143 mm Hg with a minimum of 103 mm Hg for any 10successfully with no evidence of hypoxia. It was concluded that the mask performed adequately under 34.2 mm Hg and respiration rate 14.6 breaths/min. the test conditions over the 3-hour test period. testing. The mask was well accepted with no reports of discomfort. All runs were completed performance could be detected with psychomotor averaged -0.54 inches of H20 and +0.18 inches minute period. End-expired P(CC2) averaged of H2O respectively. No deterioration of (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

)- 777 830 5/9 AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX AD- 777 830

Validation of Two Aircrew Psychomotor fests.

DESCRIPTIVE NOTE: Final technical rept., JAN 74 20P McGrevy, David F.;

Valentine, Lonnie D. , Jr; REPT. NO. AFHRL-TR-74-4 PROJ: AF-7719

PROJ:

UNCLASSIFIED REPORT

DESCRIPTORS: *Psychomotor tests, Assessment, Regression analysis, Validation, Errors, Air Force personnel, Personnel selection IDENTIFIERS: Air Force Officer Qualifying Test, Two-Mand Coordination Test, Complex

Coordination Test

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regression analyses supported the conclusion that the attrition by reason of flying deficiency. Multiple The study documents the initial validation of two two psychomotor tests together make a significant Criteria were graduation from pilot training and contribution to prediction of graduation in the psychomotor tests when taken singly. (Modified student officers scheduled for pilot training. context of the Air Force Officer Qualifying Test. Correlation data suggested that Complex Coordination is the more effective of the Coordination do not closely resemble the old. These tests were validated on a sample of 121 Human Resources Laboratory. The tests, known psychomotor tests developed by the Air Force as Two-Hand Coordination and Complex Buthor abstract)

UNCLASSIFIED

ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

INSTITUTE FOR RESEARCH STATE COLLEGE

PA

Drugs and Placebos: Drug Guessing by

Normal Volunteers,

3

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JUL 73 14P Hurst, Paul M.; Weidner, Marrianna F.; Radlow, Robert; Ross, Sherman; CONTRACT: N00014-73-C-0219, PHS-MH-11294 PROJ: NR-309-033

SUPPLEMENTARY NOTE: Prepared in cooperation with San Availability: Pub. in Psychological Reports, v33 Diego State Univ., Calif. and Howard Univ., UNCLASSIFIED REPORT p683-694 1973.

Washington, D.C.

Responses(Biology), Tranquilizers, Stimulation(Physiology), Dosage IDENTIFIERS: Placebos, Psychoneuropharmacology, *Personality, *Performance(Human), Drugs, Amphetamines, Pharmacology, Psychomotor tests, Reaction(Psychology), DESCRIPTORS:

Depressing reagents

3 3

during which a number of drug treatments were notated among Ss. After drug ingestion, a series of experimental tasks, differing among the experiments, using male and female student volunteers. Each experiment involved three to five evening sessions, the dose levels used were better discriminated from reported on how the drug received had affected him, A series of four related experiments are described variance in assigned categories. Amphetamines at experiments may facilitate drug recognition, if experimental situation provides cues to S in relationship to task demands. (Modified author received accounted for only a small part of the 'depressant', 'tranquilizer', or as having 'no effect'. In one experiment only the first two placebo than were other drugs. Limited (but recent) prior experience in being an S in drug categories were used. Differences in drugs and classified the drug as a 'stimulant', were used. At the end of each session, 5

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abstract)

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NAVAL PERSONNEL AND TRAINING RESEARCH LAB SAN DIEGO SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY AD- 760 307

3 The Development and Statistical Evaluation of a Recruit Training Performance Test.

MAR 73 21P Cory, Charles H. ; Rimland, Bernard ; Thomas, Edmund D. ; Hysham, James ; REPT. NO. SRM-73-4 DESCRIPTIVE NOTE: Research memo.,

UNCLASSIFIED REPORT

3 DESCRIPTONS: (*PERFORMANCE(HUMAN), NAVAL PERSONNEL), PSYCHOMOTOR TESTS, RELIABILITY, EFFECTIVENESS IDENTIFIERS: GROUP 4 PERSONNEL

Despite intensive efforts to develop a wide variety of appropriate test items, the following deficiencies performance testing, was administered to recruits in their fourth through tenth weeks of training. accurate measurement of achievement in learning the present emphasis upon verbal/academic testing. The RPT, composed of items in the recruit training at a very high level, thus rendering the test too easy for effective discrimination; Although intervalue in assessing the achievement of Category IV personnel, who are thought to be penalized by the would preclude the use of the RPT for comparisons among individual personnel; however, the test may prove to be useful as an index of performance developed to meet a widely recognized need for an rater reliabilities for the test were acceptable, military/psychomotor skills in recruit training. K-R20 reliabilities were marginal and alternate form reliabilities were low. These deficiencies It was hoped that the test would be of special were found: Most recruits were able to perform curriculum which were the most amenable to The Recruit Performance Test (RPT) was differences between groups. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

HUMAN ENGINEERING LABS ABERDEEN PROVING GROUND MD AD- 738 133

Operation on the Move: A Feasibility

3

DESCRIPTIVE NOTE: Technical memo., Study.

McCommons, R. Bruce

JAN 72 30P REPT. NO. HEL-TM-2-72

30P

UNCLASSIFIED REPORT

3 FESCRIPTORS: (*OPERATORS(PERSONNEL), MOBILE), (*COMMAND AND CONTROL SYSTEMS, OPERATORS(PERSONNEL)), PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN), VEHICLES, ROADS, SHELTERS, RADIO OPERATORS DESCRIPTORS:

3 a truck-mounted shelter while the vehicle traversed road courses of varying severity. The report discusses how well the subjects perfomed the required required to do a variety of psychomotor tasks inside feasibility of having personnel operate command and control system equipment on the move. Subjects were tasks and how that performance might be enhanced. The investigation was conducted to determine the (Author)

UNCLASSIFIED

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ZOMOS SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

AD- 733 228 6/14
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Investigation of Some Effects of Physical Fitness on Performance.

Phelan, Richard Harris ; DESCRIPTIVE NOTE: Master's thesis, SEP 71 41P Phelan, Ricl Parodi, Richard Steven ;

UNCLASSIFIED REPORT

(*NAVAL PERSONNEL, EXERCISE), ATTITUDES, IMPACT,
PERFORMANCE(HUMAN), PSYCHOMOTOR TESTS, TEST EQUIPMENT,
REACTION(PSYCHOLOGY), PSYCHOMETRICS, THESES
(1) DESCRIPTORS: (*PHYSICAL FITNESS, NAVAL PERSONNEL),

programs, a series of tests, and thirty-two subjects. The subjects were divided into three groups: two after the nine week program, and ninety-five percent of the exercising participants expressed a desire to experimental groups, each participating in different The relationship between physical fitness and performance, as determined by psychomotor response participants were asked whether they considered themselves in better physical and mental condition fitness of the two experimental groups was studied anxiety, depression, and hostility. The exercising psychomotor response and a decrease in degree of and psychological state was investigated in an experiment using two different physical fitness exercise programs, and a non-exercising control group. An indication of improvement in physical along with an indication of improvement in continue with a physical fitness program.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOB

ILLINOIS UNIV SAVOY AVIATION RESEARCH LAB

Three Explanations of Temporal Changes in Ability-Skill Relationships: Literature Review and Theoretical Analysis,

3

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Hulin, Charles L. ; Alvares, 24P

CONTRACT: F41609-70-C-0027 PROJ: AF-1123 TASK: 112307 Kenneth M. ;

AFHRL MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also related reports AD-731 191 and AD-732 613.

33 DESCRIPTORS: (*PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN)), ANALYSIS OF VARIANCE, PREDICTIONS, TRAINING, REVIEWS, IDENTIFIERS: PILOT TRAINING THEORY

The report reviews and integrates the empirical and This paper presents a third model, a combination of the first two, and discusses the need for empirical evidence allowing a choice among the three models. structure; i.e., changes occur in the relative importance of abilities in determining performance. The other assumes that the ability levels themselves change within a fixed task structure. theoretical literature relevant to the temporally decreasing predictive relationship between ability extensive historical review of complex motor skill the changing task and the changing subject models, adequately account for this predictive decay. One model assumes that changes occur within the task learning revealed that two distinct theoretical models have been advanced. Both of these models, measures and complex motor task performance. An (Author)

3

BIOTECHNOLOGY INC FALLS CHURCH VA

The Development of Equipment for Psychomotor Assessment,

JUL 71 17P Sanders, Jemes H. , Jr.; Valentine, Lonnie D. , Jr.; McGrevy, David F.

CONTRACT: F41609-70-C-0015

PROJ: AF-7719 TASK: 771912

TR-71-40 MONITOR: AFHRL

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMOTOR TESTS, *TEST EQUIPMENT), PILOTS, SELECTION, DESIGN, FEASIBILITY STUDIES, DIGITAL COMPUTERS

3 Mand Coordination Test. The work was conducted in two phases, the first of which resulted flexible psychomotor testing system capable of reproducing the psychological task structure of two electromechanical tests used earlier in Air Force pilot selection programs. These were the SAM Complex Coordination Test and the SAM Twoin the definition, design, assembly, and testing of the psychomotor testing system. The second phase involved the testing of 120 Air Force pilot developed to implement these tests consists of two displays on a direct-view storage tube. The feasibility of this psychomotor testing system was demonstrated and found to be highly flexible and test stations (expandable to eight) and a test control unit. Test control station functions are efficient, with a capability for conducting test candidates and analysis of the data. The system The purpose of the work was to develop a highly performed with a PDP-8/L digital computer which can generate graphical, alphanumeric, or point sessions under automated conditions. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY AD- 726 146

- 726 146 5/8 GENERAL DYNAMICS CORP GROTON CONN ELECTRIC BOAT DIV Multiple Display Monitoring. III.

Tracking While Monitoring.

3

3

DESCRIPTIVE NOTE: Technical rept., MAY 60 23P Kaufman, Herbert M. ; Blair, SPD60-049, P60-014 Wesley C. ; REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*TRACK WHILE SCAN, *PERFORMANCE(HUMAN)), (*MAN MACHINE SYSTEMS, MONITORS), DISPLAY SYSTEMS, PERFORMANCE(HUMAN), SUBMARINE PERSONNEL, TRACKING, CORRELATION TECHNIQUES, AUTOMATION DESCRIPTORS:

3

Semiautomatic systems, and in the modern submarine in concerned with man as a monitor. These studies are related to the problems encountered in automatic and particular, where a man must detect and control incoming signals. The study was designed to obtain performance measures when Ss had a two-fold task, that of compensatory tracking on one display (keeping a pointer on target) while monitoring two other displays for discrete, steady-state The study is the third in a series which is Signals.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

ND- 720 848 5/10 TULANE UNIV NEW ORLEANS LA DEPT OF PSYCHOLOGY Individual Differences in Motor and Verbal Skills.

E

DESCRIPTIVE NOTE: Final rept.,

OCT 70 15P Bilodeau, Ina McD.;

CONTRACT: F44620-68-C-0072

PROJ: AF-9778 TASK: 977801 MONITOR: AFOSR TR-71-0718

UNCLASSIFIED REPORT

DESCRIPTORS: (*LEARNING, ANALYSIS OF VARIANCE), VERBAL BEHAVIOR, PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN), RETENTION(PSYCHOLOGY), AIR FORCE PERSONNEL IDENTIFIERS: ABILITIES, INDIVIDUAL DIFFERENCES (U)

The report concerns: correlational reanalysis for the differential significance of experiments for which treatment effects on means and variances had been reported previously; analyses of original data from experiments designed to extend the range of inquiry along lines suggested as promising in the earlier studies. The experiments chosen for reanalysis were selected, individually, as involving repeated trials and experimental variables that had powerful effects on behavior (mean performance of large groups of airmen subjects), and representing, in combination, a wide range of effective variables and tasks. The new experiments explored retention testing and task complexity in very simple tasks. (W)

UNCLASSIFIED

AD- 719 745 5/10 6/19

AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO

Human Performance as a Function of Direction and Frequency of Whole-Body Vibration.

3

DESCRIPTIVE NOTE: Final rept. Sep 68-Sep 69, OCT 70 24P Shoenberger, Richard W.; REPT. NO. AMRL-TR-70-7 PROJ: AF-7231

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMOTOR TESTS, *VIBRATION), PERFORMANCE(HUMAN), FREQUENCY, INTERFERENCE, REACTION(PSYCHOLOGY), REFLEXES, TRACKING

3

Human performance on a task complex made up of twodimensional compensatory tracking and visual
discrimination reaction time was measured during
sinusoidal vibration in each of the three major
translational axes (X, Y, and Z). A separate
experiment was conducted for each axis, with the
subjects seated upright in all experiments.
Frequencies tested in each axis were i, 3, 5, 8,
and 11 Hz, at 0.2g and 0.4g. Duration of
Vibration at each frequency was 9 minutes. Y-axis
vibration at each frequency was 9 minutes. Y-axis
tracking and reaction time with the greatest
interference occurring at 3 Hz and 1 Hz, and the
least at 11 Hz. For the X and Z axes lowfrequency effects were smaller and performance curves
across frequency, for constant g levels, were flatter
with slightly greater effects at 5 Hz. Horizontal
and vertical component scores for the tracking tasks
were analyzed with regard to mechanical interference
effects for each direction of vibration, and an
analysis of frequency effects was made in relation to

17

PAGE

body resonance phenomena. (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA AD- 714 534

intelligence Profile in the Prediction of Psychomotor Skills, Perseverance, and Leadership.

3

REPT. NO. HUMRRO professional paper-22-70 Dees, James W. 11 2

Availability: Pub. in American Psychological Assn. Experimental Publication System, 6, 196c pl-UNCLASSIFIED REPORT SUPPLEMENTARY NOTE:

Sponsored by Department of the Army. Washington, D. C. DESCRIPTORS:

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, PERSONALITY), (*PERFORMANCE(HUMAN), MATHEMATICAL PREDICTION), PERFORMANCE(HUMAN), PSYCHOMOTOR TESTS, MOTIVATION, LEADERSHIP, REGRESSION ANALYSIS, CORRELATION TECHNIQU(U) IDENTIFIERS: PEER RATINGS (U)

3 In order to test the ubiquity of the structure of the intellect for predictors, a psychomotor skill, a measure of perseverance, and a measure of leadership ability were selected as criteria on which multiple regressions were conducted with a battery of 37 tests of different elements of the structure of the intellect. A functionally significant correlation with any one of the three criteria would support a rationale for greatly increased work in that area. Functionally significant correlations for all three criteria would support a unified theory of human potential. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX 6/16 5/10 AD- 713 070

3 PERFORMANCE DECREMENT AS A FUNCTION OF SEVEN DAYS OF BEDREST.

DESCRIPTIVE NOTE: Final rept. Oct-Nov 69, SEP 70 11P Trimble, Ralph W. ;Lessard,

SEP 70 Charles S.

REPT, NO. SAM-TR-70-56 PROJ: AF-7755

TASK: 775504

UNCLASSIFIED REPORT

3 IESCRIPTORS: (*PERFORMANCE(HUMAN), ATTRITION), (*PHYSICAL FITNESS, RESPONSE(BIOLOGY)), (*FATIGUE(PHYSIOLOGY), PSYCHOMOTOR TESTS), ADULTS, MALES, TEST METHODS, AIR FORCE PERSONNEL, THEORY, TIM DESCRIPTORS:

3 The hypothesis that performance decrements will occur as a function of 7 days of complete bedrest was tested in a study in which healthy, normal, young adult males served as subjects. Results indicate that longer periods of bedrest may be needed before any decrements become observable in this type of study. (Author)

3

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SEARCH CONTROL NO. DOC REPORT BIBLIOGRAPHY

– 708 114 6/19 5/10 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB AD- 708 114

EFFECTS OF VIBRATION ON COMPLEX PSYCHOMOTOR PERFORMANCE,

3

Shoenberger, Richard W. REPT. NO. AMRL-TR-67-40 PROJ: AF-7231 UNCLASSIFIED REPORT Availability: Pub. in Aerospace Medicine, v38 n12 p1264-1269 Dec 67.

(*ACCELERATION TOLERANCE, PSYCHOMOTOR TESTS), TOLERANCES(PHYSIOLOGY), PERFORMANCE(HUMAN), MOTOR REACTIONS, STRESS(PHYSIOLOGY), PHYSIOLOGY, STRESS(PSYCHOLOGY), AEROSPACE MEDICINE DESCRIPTORS: (+VIBRATION, PSYCHOMOTOR TESTS),

3

result of vibration. Previous studies employing a two-dimensional tracking task showed significant decrements at .20G at 5 cps, .25G at 7 cps, and .37G at 11 cps. This previous task required a more susceptible to direct mechanical interference from the vibration. These results, plus the fact Human performance was measured on a complex of three psychomotor tasks, during short duration (30 minutes) vertical sinusoidal vibration. The tasks ('target identification,' 'probability monitoring,' and 'warning-light monitoring') had relatively small motor components and were largely 'mental' or intellectual in nature. The results provided very greatest mechanical response of the human body occurs in this low frequency range, suggests that direct mechanical interference with the motor relatively low intensity short duration vibration. little evidence of decrement on these tasks as a aspects of the task may be significant factor contributing to performance decrements during (Author) pody that

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

AD- 684 304 5/10 5/5 HUMAN ENGINEERING LABS ABERDEEN PROVING GROUND MD PRELIMINARY INVESTIGATION FOR DEVELOPMENT OF AN ELECTRONIC PSYCHOMOTOR SKILL TESTER OF V/STOL

3

Zubal, Orest; DESCRIPTIVE NOTE: Technical note, HEL-TN-12-68 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: (*PILOTS, *PSYCHOMOTOR TESTS), VERTICAL TAKEOFF AIRCRAFT, ELECTRONIC EQUIPMENT, TRAINING, HANDLING

3

3 capabilities. The task provided a zero-input compensatory rate-tracking test with variable system sensitivity. Two groups of ten subjects each were placed on different schedules for training and validity and discriminated reliably among subjects. This is a report from a program of studies of V/ Suggested that the rate-tracking task had face Preliminary indications were that the test was testing. The integrated absolute-error scores STOL handling qualities. Simple electronic equipment was used to assess psychomotor insensitive to flight time. (Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

5/10 GEORGIA UNIV ATHENS THE LEARNING OF PSYCHOMOTOR SKILLS.

3

DESCRIPTIVE NOTE: Rept. for 1 May 63-30 Apr 66, 68 48P Noble, Clyde E.; CONTRACT: AF-AFOSR-1099-66

MONITOR: AFOSR PROJ: AF-9778 TASK: 977801

68-0868

UNCLASSIFIED REPORT Availability: Published in Annual Review of Psychology, v19 p203-50 1968.

MOTOR REACTIONS: (*MOTOR REACTIONS, REVIEWS), (*LEARNING, MOTOR REACTIONS), PSYCHOMOTOR TESTS, MEMORY(PSYCHOLOGY), VERBAL BEHAVIOR, PERFORMANCE(HUMAN), PSYCHOLOGICAL TESTS, TEST CONSTRUCTION(PSYCHOLOGY), TRANSFER OF TRAINING, GROUP DYNAMICS, TRACKING, CYBERNETICS, RETENTION(PSYCHOLOGY), ATTENTION (U) DESCRIPTORS:

A review of the research literature on the learning of psychomotor skills is presented. Topics discussed include: Major works; Historical trends; Selective learning; Tracking; Feedback and cybernetics; Retention and transfer.

3

UNCLASSIFIED

ZOMOB SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

TEXAS UNIV GALVESTON MEDICAL BRANCH AD- 664 102

3 THE RELATIONSHIP OF ANXIETY AND IMPULSIVENESS FACTORS AMONG HIGH SCHOOL MALES.

Barratt, Ernest S. ; Fruchter 67 29P Benjamin

Availability: Published in Unidentified UNCLASSIFIED REPORT

CONTRACT: Nonr-1598(06)

SUPPLEMENTARY NOTE: Prepared for presentation at the Annual Meeting of the Society of Multivariate Experimental Psychology, Berkeley, Calif., November 17, 1967. Prepared in cooperation with Texas Univ., Austin. ournal.

3 DESCRIPTORS: (*ANXIETY, PSYCHOLOGICAL TESTS), FACTOR ANALYSIS, PERSONALITY, PSYCHOMOTOR TESTS, REACTION(PSYCHOLOGY), REFLEXES, PSYCHOPHYSIOLOGY

uncorrelated and load on separate orthogonal factors. psychophysiological measurements. Among high school seniors, college students, medical students, and young non-college adults, psychometric measures of anxiety and impulsiveness are consistently The same marker tests for impulsiveness and anxiety have been used with a variety of other personality, negative finding with sophomore high school males experiences, psychometric scales and psychiatric interviews; laboratory behavior studies; ability, and interest tests in fourteen separate The study is part of a research program aimed at consistent inter-relationships among four broad classes of measurements: everyday life impulsiveness and anxiety factors were clearly impulsiveness and anxiety, by searching for factor analyses. In every instance but one, defined by the marker tests. It was the one defining two personality predispositions, that led to the study described herein.

PAGE

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

TEXAS UNIV GALVESTON MEDICAL BRANCH AD- 663 697

PERCEPTUAL-MOTOR PERFORMANCE RELATED TO IMPULSIVENESS AND ANXIETY.

Barratt, Ernest S. CONTRACT: Nonr-1598(06)

Availability: Published in Perceptual and Motor UNCLASSIFIED REPORT Skills n25 p485-92 1967. DESCRIPTORS: (*PSYCHOMOTOR TESTS, *ANXIETY),
PERSONALITY, BEHAVIOR, PERFORMANCE(HUMAN), MOTOR
REACTIONS, EXPERIMENTAL DESIGN

3

3 suggest that impulsiveness as a personality predisposition is related more to motor control than varying levels of anxiety and impulsiveness and were performed less efficiently on these tasks than did the other three groups of Ss. The results tested on four perceptual-motor tasks. The high-Four groups of Ss were selected on the basis of impulsiveness, low anxiety Ss consistently to sensory discrimination or cognition.

UNCLASSIFIED

ZOMOB DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO.

SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX 5/10 AD- 660 103

MOL: PREDICTING FOUR-HOUR LEVELS OF PSYCHOMOTOR PERFORMANCE FROM THE INITIAL HALF HOUR.

3

Hartman, Bryce O. ; DESCRIPTIVE NOTE: Rept. for Jan 65-Aug 66 15P 10N 67

REPT. NO. SAM-TR-67-55 PROJ: AF-7930

793003 TASK:

UNCLASSIFIED REPORT

(*CONFINEMENT(PSYCHOLOGY), PSYCHOMOTOR TESTS),
PERFORMANCE(HUMAN), SPACE FLIGHT, SPACE SIMULATION
CHAMBERS, NUTRITION, DEHYDRATED FOODS, MOTIVATION,
EFFICIENCY, DIET, BEHAVIOR, PREDICTIONS, AEROSPACE DESCRIPTORS: (*PSYCHOMOTOR TESTS, SPACE CREWS), MEDICINE

DENTIFIERS: MOL(MANNED ORBITING LABORATORIES)

33

nutrition study using freeze-dehydrated, bite-sized 'Apollo' food. The two experimental subjects were confined in a small (300 cu. ft.) altitude chamber operated at 27,000 feet with an atmosphere of 70% oxygen and 30% helium. Psychomotor testing was conducted in 4-hour sessions three times a day, every other day, alternating with two control observed, except on the short-term memory task, which was concluded that a daily half-hour psychomotor test of space crews is probably not sufficiently stable to remainder of the testing session ranged from -. 21 to Correlations between the first half hour and the +.96 and were scattered across that range. It subjects. No major psychomotor changes were appeared to reflect motivational factors. Four subjects participated in an MOL-like meet biomedical monitoring requirements.

UNCLASSIFIED

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(Author)

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 651 809 5/9 5/10
NAVAL AEROSPACE MEDICAL INST PENSACOLA FLA

A PRELIMINARY EVALUATION OF A SHORT PSYCHOMOTOR

3

DESCRIPTIVE NOTE: Special rept.,
JUN 66 12P Askren, William B. , Jr;
REPT. NO. SR-66-5

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMOTOR TESTS, *NAVAL AVIATION), (*NAVAL PERSONNEL, *PSYCHOLOGICAL TESTS), TRAINING DEVICES, CONTROL STICKS, TRACKING, AVIATION PERSONNEL, SELECTION, PERFORMANCE(HUMAN), RELIABILITY (U)

This was a preliminary study to determine the suitability of one particular aspect of the General Vehicular Research Trainer as a test for predicting success in naval aviation training. The accumulated error scores from using a control stick to reset a linear indicator were used as the performance measure. A series of twelve thirty-reliability and variability, and to be possible of administration within practical time limits.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS AD- 650 182 5/10
NAVAL SUBMARINE MEDICAL CENTER GROTON CONN MEDICAL RESEARCH LAB

THE RESPONSE ANALYSIS TESTER (RATER) AND LOGICAL INFERENCE TESTER (LOGIT): I. SOME PRELIMINARY FINDINGS.

3

DESCRIPTIVE NOTE: Interim rept.,
FEB 67 20P Parker, James W.;
REPT. NO. SMRL-487
MONITOR: NAVMED MF022.03.03-9023.11

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERFORMANCE(HUMAN), TEST EQUIPMENT), PERFORMANCE(HUMAN), MEASUREMENT, PSYCHOMOTOR TESTS, REACTION(PSYCHOLOGY), PROBLEM SOLVING, LEARNING, REFLEXES, ATTENTION

3

The report presents the results of preliminary work with two performance testing devices. One (RATER) measures choice reaction time or the time required to respond to four different colored lights presented in random order for five minutes by pressing the corresponding correct button. The other device (LOGII) measures the ability to solve problems concerned with determining the correct sequential order in which twenty buttons are pressed in order to light the board. Data are presented for comparing the scores for any group tested on the RATER with a typical Navy population. Results with LOGII show it to be potentially useful for determining performance decrements during exposure to unusual environments, such as high pressure. (Author)

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SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIOGRAPHY

UNCLASSIFIED

AMERICAN INSTITUTES FOR RESEARCH SILVER SPRING MD AD- 646 392

3 GOALS AND INTENTIONS AS DETERMINANTS OF PERFORMANCE LEVEL, TASK CHOICE AND ATTITUDES.

DESCRIPTIVE NOTE: Final rept., 1 Dec 65-31 Jan 67, Locke, Edwin A. ; Bryan, JAN 67 100P

AIR-E-51-1/67-FR Nonr-4792(00) Judith F. : CONTRACT:

UNCLASSIFIED REPORT

FESCRIPTORS: (*BEHAVIOR, *MOTIVATION),
(*PERFORMANCE(HUMAN), *ATTITUDES(PSYCHOLOGY)),
REACTION(PSYCHOLOGY), PSYCHOLOGICAL TESTS, STATISTICAL
ANALYSIS, PSYCHOMOTOR TESTS

3 were carried out to explore the relationship of goals and intentions to level of performance on tasks, task effect of monetary incentives on choice independently of S's behavioral intentions; (4) overall task liking and satisfaction with performance were positive, linear functions of the number of successes to a higher performance level than a goal of 'do your hard goals produced more task interest than a goal of to a higher level of performance than easy goals and liking and performance were determined by the nature and difficulty of the individual's goal, rather than 'do your best' (this difference was enhanced if the was no relationship between task liking or interest choice, and liking for, and interest in the task. The results indicated that: (1) hard goals led best': (2) incentives such as knowledge of score, money, and time limits did not affect performance level independently of S's goals; (3) there was a significant relationship between behavioral intentions and choice behavior and there was no Iwenty laboratory experiments and 2 field studies experiment lasted more than 2 hours); ((6) there usual; and when success followed other successes and performance or performance improvement; both greater when: S had expended the most effort to rather than a series of failures; (5) specific achieved on the task; further, the amount of satisfaction attained from a given success was achieve it; when S succeeded in less time than by each other. (Author)

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

MANITOBA UNIV WINNIPEG AD- 644 481

EFFECTS OF IMMOBILIZATION: BEHAVIOURAL AND EEG CHANGES,

3

Zubek, John P. ; MacNeill, M. 23P DEC 65

CONTRACT: PHS-MH-08748-01 PROJ: DRB-9425-08

Availability: Published in Canad J. Psychol/Rev Canad Psychol v20 n3 p316-36 1966. UNCLASSIFIED REPORT

TESTS), POSTURE(PHYSIOLOGY), *PSYCHOMOTOR TESTS), POSTURE(PHYSIOLOGY), MOTOR REACTIONS, INHIBITION, SENSORY DEPRIVATION, ELECTROENCEPHALOGRAPHY, BEHAVIOR, RECALL, SPACE PERCEPTION, COLOR VISION, VERBAL BEHAVIOR, ATTENTION, CREATIVITY, PERFORMANCE(HUMAN), PROPRIOCEPTION, VISUAL PERCEPTION, AUDITORY PERCEPTION, DESCRIPTORS:

CANADA

3 effect of restricted motor activity, of a week's duration, on the electrical activity of the brain and others appeared to be related to the combined effects critical thinking, and visual and auditory vigilance. on various measures of intellectual and perceptual-motor processes. The results of the first experiment showed a post-immobilization slowing of occipital EEG activity, an effect which was significantly different from that of both ambulatory and recumbent control Ss. In addition to this taken of some of the more complex intellectual and immobilization. On the other hand, auditory vigilance was significantly worse in the recumbent recall, space relations, cancellation, reversible figures and colour discrimination). Some of these were associated with immobilization alone while position. In the second experiment, measures were None of the intellectual measures was affected. unexpected. Performance on visual vigilance was Two experiments were conducted to determine the physiological change, a variety of behavioural of restricted motor activity and the recumbent perceptual-motor processes viz., creative and Ss relative to the immobilized and ambulatory control Ss. (Author) deficits were found to occur (verbal fluency, The results on the two vigilance tasks were significantly better after the week of

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

IOWA STATE UNIV IOWA CITY AD- 643 414

AN INVESTIGATION OF INDIVIDUAL SUSCEPTIBILITY TO INTERFERENCE.

3

Final rept., P Lewis, Don ; McAllister, 87P DESCRIPTIVE NOTE:

AUG 50 Dorothy E. :

CONTRACT: N9onr-938(01)

PROJ: NR-783-007 SPECDEVCEN-20-M-18 MONITOR: SPECDEVCEN 938-1-10

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERFORMANCE(HUMAN), INTERFERENCE), (*PSYCHOLOGICAL TESTS, RELIABILITY), LEARNING, ERRORS, TRAINING DEVICES, PSYCHOMOTOR TESTS

3 with interference in psychomotor performance has been underway in the Psychology Laboratory at the State University of Iowa. The chief aim of the work has been to determine whether or not there is a trait or tendency, tentatively called susceptibility to interference, which is possessed to a greater or lesser degree by individuals in the Since 1948, a major program of research concerned general population.

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SEARCH CONTROL NO. DDC REPORT BIBLIOGRAPHY

- 643 413 5/10 IOWA STATE UNIV IOWA CITY AD- 643 413

THE EFFECTS OF LEVEL OF LEARNING AND OF OVERLEARNING ON PROACTIVE AND RETROACTIVE FACILITATION AND INTERFERENCE.

3

McAllister, Dorothy E. DESCRIPTIVE NOTE: Technical rept.,

AUG 50 25P MCAllister, DC CONTRACT: N90nr-938(01) PROJ: NR-783-007, SPECDEVCEN-20-M-1e MONITOR: SPECDEVCEN 938-1-8

UNCLASSIFIED REPORT

3 JESCRIPTORS: (*PERFORMANCE(HUMAN), LEARNING), (*LEARNING, INTERFERENCE), TRAINING DEVICES, CONTROL, PSYCHOLOGICAL TESTS DESCRIPTORS:

practiced the reversed task on the coordinator to the task only, served as a control for proactive effects. provided for each of the four experimental groups. An additional group, given practice on the reversed standard task on the Two-Hand Coordinator until the original learning performance criterion set for the group was met. Subjects in the overlearning group were given 30 additional trials following the attainment of the OL criterion. All four groups of errors, and persistence of errors--were obtained, Three performance measures -- time on target, number facilitating and interfering effects of different levels of original learning (OL). It involved nine groups, four experimental and five control, consisting of 10 or 11 subjects each. The subjects in the four experimental groups practiced the same criterion for interpolated learning (IL) and trials on the standard task. A control group was The present investigation was concerned with the Adjusted means (experimental group means minus received a constant number of relearning (RL) control group means) were used in most of the

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24

SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIOGRAPHY

IDWA STATE UNIV IDWA CITY 5/10 643 412 AD-

SINGLE-TRIAL-PER-TASK VERSUS MULTIPLE-TRIALS-PER-TASK IN THE ACQUISITION OF SKILL IN PERFORMING SEVERAL

DESCRIPTIVE NOTE: Technical rept.,
Aug 50 20P McAllister, Dorothy E.

SIMILAR TASKS.

Lewis, Don ;

CONTRACT: NGOAR-938(01)
PROJ: NR-783-007 ,SPECDEVCEN-20-M-1e
MONITOR: SPECDEVCEN 938-1-7

UNCLASSIFIED REPORT

3 DESCRIPTORS: (*PERFORMANCE(HUMAN), INTERFERENCE), (*LEARNING, PERFORMANCE(HUMAN)), EXPERIMENTAL DESIGN, PSYCHOLOGICAL TESTS, EFECTIVENESS DESCRIPTORS:

3 This study was an attempt to discover the relative merits of two different practice procedures in developing skill in the performance of psychomotor

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SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

I- 643 411 5/10 5/9 IOWA STATE UNIV IOWA CITY AD- 643 411

THE EFFECTS OF ALTERNATING PRACTICE ON THE PERFORMANCE OF TWO ANTAGONISTIC MOTOR TASKS.

3

Technical rept. DESCRIPTIVE NOTE:

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Spieth, Walter ; Lewis, Don CONTRACT: N9onr-938(01)
PROJ: NR-783-007, SPECDEVCEN-20-M-1e
MONITOR: SPECDEVCEN 938-1-6

UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMOTOR TESTS, INHIBITION), (*TRAINING, ANALYSIS OF VARIANCE), LEARNING, INTERFERENCE, PERFORMANCE(HUMAN), RÉTENTION(PSYCHOLOGY)

3

3 alternating practice and despite evidences of mutual interference throughout practice. Skill was acquired on both tasks despite the

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

IDWA STATE UNIV IDWA CITY

A STUDY OF WARMUP DECREMENT IN PURSUIT ROTOR PERFORMANCE.

3

DESCRIPTIVE NOTE: Technical rept.,
JUL 50 21P Adams, Jack A.
CONTRACT: N9onr-938(01)
PROJ: NR-783-007 , SPECDEVCEN-20-M-1e
MONITOR: SPECDEVCEN 938-1-5

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERFORMANCE(HUMAN), INTERFERENCE), (*LEARNING, PERFORMANCE(HUMAN)), PSYCHOLOGICAL TESTS, NAVAL PERSONNEL, TRAINING DEVICES, MOTOR REACTIONS, TRANSFER OF TRAINING, PSYCHOMOTOR TESTS (U)

3 practice group over that of the massed practice group revealed again what is already rather generally accepted as fact—that with other things equal, contrary to expectations for the distributed practice distributed practice sessions are advantageous in the acquisition of skill on motor tasks. Continuous practice on a task without intermittent pauses, even condition and showed that warmup decrements in rotor both massed and widely distributed practice on the when the overall length of practice is only a few superiority of the performance of the distributed In a study extending over five days and employing appeared after rest intervals of 24 hours. This result was predicted for massed practice but was performance after long rest intervals cannot be pursuit rotor, warmup decrements consistently minutes, is almost certain to lead to reduced attributed to inhibitory factors. The marked efficiency.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 643 407 5/10 IDWA STATE UNIV IDWA CITY FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED MASHBURN APPARATUS: II. THE EFFECTS OF VARYING THE AMOUNT OF INTERPOLATED LEARNING. (U)

DESCRIPTIVE NOTE: Technical rept., 50 16P Lewis, Don ;McAllister

Dorothy E.; CONTRACT: N9onr-938(01) PROJ: NR-783-007 ,SPECDEVCEN-20-M-1e MONITOR: SPECDEVCEN 938-1-2

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERFORMANCE(HUMAN), INTERFERENCE), (*LEARNING, PERFORMANCE(HUMAN)), PSYCHOLOGICAL TESTS, TRAINING DEVICES, NAVAL PERSONNEL, REACTION(PSYCHOLOGY), PSYCHOMOTOR TESTS

groups of male subjects were given different amounts the reversed task, they relearned the standard task. Decrements in number of matches at the outset of after practicing for some fixed number of trials on There were 12 experimental groups, composed of male relearning (RL) were found to be related to the amount of OL. The present report is concerned with students. With two exceptions, the groups were the same as those used in analyzing the effects of different amounts of OL. Iwo new groups were added the effects of varying the amount of interpolated learning (IL) subsequent to some fixed amount of of practice on the standard Mashburn task. Then to insure a more adequate interpretation of the Mashburn Apparatus increased with increasing amounts of original learning (OL). During OL Ol., on the relearning of the standard task, A previous report showed that the amount of interference in performing on the Modified findings.

PAGE

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(Author)

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. AD- 643 315

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AEROSPACE MEDICAL RESEARCH LABS WRIGHT-PATTERSON AFB

Ξ RAIL TEST TO EVALUATE EQUILIBRIUM IN LOW-LEVEL WIDEBAND NOISE.

Nixon, Charles W. Harris Charles S. ; VON Gierke, Henning E. ; REPT. NO. AMRL-TR-66-85 PROJ: AF-7231 723103 TASK:

UNCLASSIFIED REPORT

DESCRIPTORS: (*EQUILIBRIUM(PHYSIOLOGY), *PSYCHOMOTOR TESTS), (*NOISE, MOTOR REACTIONS), STRESS(PHYSIOLOGY), NOISE, BROADBANO ((

3 ear protectors to obtain experimental conditions of: Psychomotor performance on a rail test was measured during free-field exposure to wideband noise at an overall level of 120 dB re 0.0002 dyne per square centimeter. Subjects wore various combinations of be a useful measure of psychomotor performance in intense noise. Future research will be directed to rail test performance in exposure conditions higher (1) sound pressure levels equal in both ear canals maintain his equilibrium was adversely affected by the unbalanced noise condition. The rail test may level greater in one ear canal than in the other (balanced condition) and (2) sound pressure than those employed in this study. (Author) (unbalanced condition). Man's ability to

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

UNCLASSIFIED

0- 641 587 5/9 5/ CONNECTICUT COLL NEW LONDON AD- 641 587

3 TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY.

Baker, Katherine E.; Gagne DESCRIPTIVE NOTE: Technical rept., 34P Robert M. : 49 AUG

PROJ: NR-783-003 ,SPECDEVCEN-20-M-18 MONITOR: SPECDEVCEN 316-1-8 CONTRACT: N70nr-316(01)

UNCLASSIFIED REPORT

3 (*LEARNING, MOTOR REACTIONS), (*TRAINING DEVICES, DESIGN), STIMULATION(PHYSIOLOGY), REACTION(PSYCHOLOGY), REFLEXES, COLORS, PERFORMANCE(HUMAN), ERRORS, PERFORMANCE(HUMAN), HUMAN FACTORS ENGINEERING DESCRIPTORS: (*TRANSFER OF TRAINING, *MOTOR REACTIONS),

on a task requiring two different responses; one to Standard color during training became one of six nonresemblance between training and final tasks could be colors in the series was constant and the series may stimuli were distributed at equal intervals along a psychophysical scale of color similarity in j.n.d. An experiment was carried out to investigate the relation between similarity of stimuli of two motor be taken as representing six equal similarity steps over approximately one half of the visible spectrum training task in that one of the six non-standard lights of the training task was employed as the standard color in the final task, and what was the consisting of 25 young Navy men each, was trained light of given color and the other to any of six standard stimuli of the two tasks. The series of colored stimulus lights was selected so that the standard colors of the final task. The degree of expressed in terms of the similarity between the groups proceeded to the learning of a different second task. The final tasks differed from the units. Thus, the difference between successive tasks and the amount of transfer between them. other colors. Following training, each of the represented 0, 1, 2, 4, and 6 similarity-step differences from the common training task. Each of five matched experimental groups, The final tasks chosen for investigation

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

CONNECTICUT COLL NEW LONDON

TRANSFER OF TRAINING TO A MOTOR SKILL AS A FUNCTION OF VARIATION IN RATE OF RESPONSE.

Gagne, Robert M. ; Baker, PROJ: NR-783-003 , SPECDEVCEN-20-M-18 DESCRIPTIVE NOTE: Technical rept., Katherine E. ; Wylie, Ruth C. ; 316-1-10 CONTRACT: NTONF-316(01) SPECDEVCEN 25P 49 MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Rept. on Human Engineering Synthesis of Basic Information. (*TRANSFER OF TRAINING, *MOTOR REACTIONS), (*LEARNING, MOTOR REACTIONS), (*TRAINING DEVICES, DISPLAY SYSTEMS), PERFORMANCE(HUMAN), REACTION(PSYCHOLOGY), REFLEXES, ERRORS, PERCEPTION(PSYCHOLOGY), PERFORMANCE(HUMAN), TRACKING, HUMAN FACTORS ENGINEERING DESCRIPTORS:

implications for problems which arise in the training designed to study the transfer effects of training on to the responses required, but which involves stimuli identical to those of the final task. Knowledge of operate the two pieces of equipment affect the ease with which the final task in question may be learned. An experiment is reported which deals with transfer of training as a function of differences in response target which moved irregularly back and forth over a what extent differences in the responses required to a task which differs from a final task with respect instruments or devising synthetic training devices. In each of these cases it is necessary to know to tasks employed in this experiment involved turning crank so as to keep a pointer in alignment with a 120 degree sector on the circumference of a dial. of certain types of motor tasks involving pursuit relevance to the problems arising in redesigning rate between the training and final tasks. The The results of the experiment have a number of the effects of response variation has obvious reactions. The experiment was specifically

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB

5/10 CONNECTICUT COLL NEW LONDON AD- 641 581

TRANSFER OF TRAINING FROM PRACTICE ON COMPONENTS IN A MOTOR SKILL

Gagne, Robert M. : Foster 47 Harriet

316-1-2 N70nr-316(01) SPECDEVCEN CONTRACT: MONITOR:

UNCLASSIFIED REPORT

3 (*TRANSFER OF TRAINING, *MOTOR REACTIONS), (*LEARNING, MOTOR REACTIONS), (*TRAINING DEVICES, DISPLAY SYSTEMS), PERFORMANCE(HUMAN), CONTROL SYSTEMS, ERRORS, PERFORMANCE(HUMAN), PERCEPTION(PSYCHOLOGY), REFLEXES DESCRIPTORS:

3 motor skill when varying amounts of initial practice have been given on a task which is itself a component and lower positions of the light stimuli was given to three different groups for 10, 30, and 50 trials; and red and green lights was given to one group having 30 training on the discrimination of reactions to upper red-green discrimination was practiced throughout 60 part training on the discrimination of responses to practiced a preliminary task which was part of the determination of the extent to which transfer of training takes place to the learning of a complex learned a motor skill involving four differential without any preliminary practice. The learning of the skill was measured in terms of time required training, the total skill involving both up-down subjects, each containing 30 young Navy enlisted each correct reaction, and in terms of number of trials. A control group learned the total skill An experiment is reported which deals with the activity of the skill. Five matched groups of total skill for 0, 10, 30, or 50 trials. Part men, were used in the experiment. Each group manual responses to four lights after having practice trials. Following this preliminary errors. (Author)

59

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

- 640 795 5/10 TUFTS UNIV MEDFORD MASS INST FOR PSYCHOLOGICAL RESEARCH

3 PERSISTENCE OF OCULAR ROTATION FOLLOWING COMPENSATION FOR DISPLACED VISION,

Kalil, Ronald E. ; Freedman, Sanford J. : CONTRACT: AF 49(638)-1282,PHS-RD-1688-P PROJ: AF-9778, TASK: 977801, 66-1163 7 8 MONITOR: AFOSR NOV 65

Availability: Published in Perceptual and Motor Skills, v22 p135-9 1962. UNCLASSIFIED REPORT

MESCRIPTORS: (*VISION, *PROPRIOCEPTION), (*EYE, ROTATION), PRISMS(OPTICS), MOTOR REACTIONS, PSYCHOMOTOR DESCRIPTORS:

3 in reaching when prisms are first worn as well as for after-effect errors. (Author) unaware. These rotations could account for errors Photographic measurements of eye position before displacement revealed significant and persistent lateral ocular rotations of which Ss seemed and after compensation for prismatic visual

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

AD- 639 362 5/10 IDWA STATE UNIV IDWA CITY

3 RETROACTIVE FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED TWO-HAND COORDINATOR

Lewis, Don ; smith, Paul N. ; DESCRIPTIVE NOTE: Technical rept. PROJ: NR-783-002, SDC-20-M-1e MONITOR: SPECDEVCEN 166-00-2 DEC 51 22P CONTRACT: Nonr-166(00), 22P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN)), LEARNING, INTERFERENCE, TRANSFER OF TRAINING

3 reversed coordinator task, while the control group went without practice of any kind. All groups relearned the standard task under uniform conditions. level of proficiency attained on the reversed task during interpolated learning (IL). There were no indications that differential amounts of retroactive The study demonstrates how the learning of a new skill can interfere with the performance of another skill which has already been learned. Such an The results showed, as expected, that the amount of retroactive interference as reflected by losses in attained a prescribed level of proficiency on the effect is called 'retroactive interference'. Six groups of female subjects, ten per group, first proficiency during relearning, depended upon the attained different levels of proficiency on the facilitation were developed during IL. This was Coordinator. The five experimental groups then standard task of the Modified Two-Hand contrary to expectations. (Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

IOWA STATE UNIV IOWA CITY AD- 639 361

DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: II. THE MODIFIED TWO-HAND COORDINATOR.

Shephard, Alfred H. ; Lewis, 146 49

57-2-12 N5or i -057 (02), SPECDEVCEN CONTRACT: MONITOR: Don :

Availability: Published in The Journal of Psychology v29 p53-66 1950. SUPPLEMENTARY NOTE: See also AD-639 292. UNCLASSIFIED REPORT

3 ESCRIPTORS: (*PSYCHOMOTOR TESTS, TEST EQUIPMENT), LEARNING, INTERFERENCE, PERFORMANCE(HUMAN) DESCRIPTORS:

general effects on relearning of two different levels of original learning where the amount of interpolated practice is held constant. The Modified Twodevice for investigating associative interference in developed. The device is basically similar to the standard instrument but provides for reversing and interchanging the controls, changing the rate of movement of the contact button, and recording response errors. The use of the coordinator in studies of interference has been illustrated. The chief evidences of interference are decrements in time-on-target scores and increases in number of errors. Of incidental interest among the results presented in this paper are curves showing the A special model of the Two-hand Coordinator was hand Coordinator promises to be a highly useful psychomotor performance. (Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

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IOWA STATE UNIV IOWA CITY AD- 639 305

DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: IV. THE TURRET PURSUIT

APPARATUS.

3

Lewis, Don ; shephard, Alfred CONTRACT: N90nr-938(01),N50ri-057(02) MONITOR: SPECDEVCEN 57-2-14 10P 49 007

Availability: Published in The Journal of Psychology v29 p173-82 1950. SUPPLEMENTARY NDTE: See also AD-639 304. UNCLASSIFIED REPORT MONITOR:

DESCRIPTORS: (*PSYCHOMOTOR TESTS, TEST EQUIPMENT), PERFORMANCE(HUMAN), TRAINING DEVICES, INTERFERENCE, DESCRIPTORS: LEARNING

3

3 a subject to manipulate two controls so as to effect continuous changed in the azimuth and elevation positions of a spot of light. The task is to keep the spot of light on a target (photocell) which moves through an irregular course. A preliminary study showed that if skill is first acquired with the controls arranged in the standard way, and if practice is then given with the controls reversed, reliable decrements in ability to perform the original task appear at the outset of relearning. Some subjects were affected far more than others by A pursuit device has been developed which requires the interpolated practice, indicating marked difference in individual susceptability to associative interference. (Author)

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30

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PAGE

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

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IOWA STATE UNIV IOWA CITY PO-

DEVICES FOR STUDYING INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: 111. THE DOUBLE-DISK PURSUIT APPARATUS.

 Ξ

Lewis, Don ; DESCRIPTIVE NOTE: Technical rept. MONITOR: SPECDEVCEN 57-2-13 PROJ: NR-783-002, SDC-20-M-1 JUN 53 19P CONTRACT: NSori-57(02),

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-639 361.

 $\widehat{\Xi}$ DESCRIPTORS: (*PSYCHOMOTOR TESTS, TEST EQUIPMENT), LEARNING, PERFORMANCE(HUMAN), INTERFERENCE

 $\hat{\epsilon}$ too that appeared at the outset of relearning were small Mirror-vision performance during relearning was not pattern. Original practice with the disks rotating Double-Disk Pursuit Apparatus provided for a variable pursuit pattern. The change in the tasks, Koerth-type rotor was first employed with mirrorvision practice preceding direct-vision practice. appeared at the outset of relearning, but it was small to be clearly identifiable as a product of subsequent to interpolated practice. An ordinary adversely affected by the interpolated practive. subjects learned to trace a kind of figure-eight directions of rotation reversed. The decrements as between original and interpolated learning, rotation of the disks. Here again, a decrement apparatus to induce decrements in performance in one way was followed by practice with the depended upon a reversal of the directions of Three attempts were made with rotary pursuit interference effects. A second model of the and could not confidently be attributed to With the Double-Disk Pursuit Apparatus, interference. (Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

IOWA STATE UNIV IOWA CITY AD- 639 294

THE PROBLEM OF CONTROLLING LEVEL OF LEARNING IN STUDIES OF ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE.

3

Adams, Jack A. DESCRIPTIVE NOTE: Technical rept. 57-2-9 APR 49 11P CONTRACT: NSori-57(02), MONITOR: SPECDEVCEN PROJ: NR-783-002.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN)), LEARNING, TEST METHODS, WORD ASSOCIATION, INTERFERENCE TRANSFER OF TRAINING

3 scores, and then extrapolate to obtain an estimate of would have a different number of trials in attaining attained the same relative level with respect to his Using this criterion, it would be necessary to give each subject a fixed number of trials on, say, the controlling level of learning on a psychomotor task level would be made upon the assumption of equality of units at different points of the learning curve. his performance asymptote. Each subject could then be given the number of practice trials required to reach the predetermined level with respect to this Level of learning could be regarded as more nearly equal because each subject would have attained the own learning potential. This level could be oneindividual's total potential ability to perform. Mashburn apparatus, fit a curve to the resulting desired, the Vincent technique would have to be predicted asymptote. The determination of this employed to combine the individual durves where adequately controlled when each individual has performance asymptote. If a group curve were same relative level with respect to his own could assume that level of learning is most third or one-half or some other part of the A satisfactory solution of the problem of the criterion. (Author)

SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIOGRAPHY

IOWA STATE UNIV IOWA CITY 5/10

THE EVALUATION OF DIFFICULTY OF TASK UNDER SEVERAL DIFFERENT CONDITIONS OF PERFORMANCE OF THE MODIFIED MASHBURN APPARATUS.

Adams, Jack A. ; DESCRIPTIVE NOTE: Technical rept. 50 29P Adams, Jack

CONTRACT: NSOri-057(02), PROJ: NR-783-002,SDC-20-M-1 MONITOR: SPECDEVCEN 57-2-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN)), TRANSFER OF TRAINING, LEARNING

3 the maximum amount of negative transfer was operating practice trials were given on each of two consecutive showed that no single measure was completely adequate the G.I.D. provided a seemingly reliable basis for rating the six tasks in relative difficulty. It could be shown that the maximum amount of positive transfer was operating for the easiest task and that relating to the data on number of matches and six of to reveal the relative difficulty of the six tasks. A general index of difficulty (G.I.D.) was computed by obtaining the product of the grand mean of matches and the mean of slopes and dividing the producy the the grand mean of errors. The values of for the two most difficult tasks. It could also be shown that the number of errors made on individual them relating to error-match ratios. The analyses transfer. However, the evidence clearly indicated students, served as subjects. Each of the groups relative difficulty were considered, six of them that the difficulty of psychomotor tasks such as Six groups, each composed of from 15 to 18 male controls was, in several cases, dependent upon performed on one of six tasks. Ten two-minute days. Twelve different measures or indices of Apparatus cannot be reliably inferred from suppositions concerning transfer. (Author) those available on the Modified Mashburn

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

IOWA STATE UNIV IOWA CITY AD

DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN

PSYCHOMOTOR PERFORMANCE: I. THE MODIFIED MASHBURN APPARATUS.

3

Lewis, Don ; shephard, Alfred 12P AUG 49

57-2-7 CONTRACT: N5ori-057(02). MONITOR: SPECDEVCEN

Availability: Published in The Journal of Psychology v29 p35-46 1950. SUPPLEMENTARY NOTE: UNCLASSIFIED REPORT

DESCRIPTORS: (*PSYCHOMOTOR TESTS, TEST EQUIPMENT), PERFORMANCE(HUMAN), LEARNING, ERRORS, INTERFERENCE

3

3 matches, increases in number of errors, and increases reversing the three controls on the apparatus and for followed by a relearning of the original task, clear innovations are provisions for interchanging and/or followed by interpolated practice with a different arrangement and the interpolated practice is then practice with one arrangement of the controls is evidences in the form of decreases in number of evidences of associative interference appear -A special model of the Mashburn Apparatus has counting errors in performance. When original been developed for use in investigations of associative interference. The principal in error-match ratio. (Author)

32

PAGE

ZOMOB SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

LOCKHEED-GEORGIA CO MARIETTA AD- 638 183

3 USE OF THE EXPERIMENTAL METHOD FOR EVALUATIONS OF PERFORMANCE IN MULTI-MAN SYSTEMS.

Passey, George E. ; Alluisi, Earl A. ; Chiles, W. Dean ; CONTRACT: AF 33(657)-10506, TR-66-121 28P PROJ: AF-1710, TASK: 171002, MONITOR: AMRL AUG

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: This rept. was originally published as AMRL Memo-P-67, Feb. 1964.

DESCRIPTORS: (*HUMAN FACTORS ENGINEERING, *CONFINED ENVIRONMENTS), (*GROUP DYNAMICS, CONFINED ENVIRONMENTS), PERFORMANCE(HUMAN). DECISION MAKING, FLIGHT CREWS, ASTRONAUTS, PERFORMANCE(HUMAN) DESCRIPTORS:

method as a technique for arriving at solutions to human factors engineering problems encountered in the are the methodological decisions that must be made in itkely to influence these decisions are considered as well as the implications of these decisions with respect to the validity and generality of the data illustrated through use of data on group performance design of multi-man systems. Of specific concern thus obtained. These various decision points are The report discusses the use of the experimental the design of the research. Factors that are during long-term confinement. (Author)

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SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

3 PERSONALITY DIFFERENCES BETWEEN EXTREME PERFORMERS DURING A FOURTH DISCUSSION.

STANFORD UNIV CALIF GRADUATE SCHOOL OF BUSINESS

Harrell, Thomas W. DESCRIPTIVE NOTE: Technical rept. CONTRACT: NOn--225(62) 40b PROJ: NR-171-388, 99

UNCLASSIFIED REPORT

Rept. on Perception of Leadership SUPPLEMENTARY NOTE: in Small Groups.

3 DESCRIPTORS: (*LEADERSHIP, GROUP DYNAMICS), (*GROUP DYNAMICS, PERSONALITY), BEHAVIOR, ATTITUDES(PSYCHOLOGY), VERBAL BEHAVIOR, PSYCHOLOGICAL TESTS, SOCIOMETRICS, PERCEPTICN (PSYCHOLOGY)

higher for each of the four choices and for frequency of talking. There were significant differences in six of the Guilford-Zimmerman Temperament grade point average were compared to the highest and lowest men on each of the four sociometric choices and on times talking. Twenty personality scales had 28 differences significant at the .05 level or higher between the highest and lowest men in the groups. Individual Background Survey was fourth session also talked more frequently and often personality of the highest chosen men was ascendant, battery, discussed four human relations cases. An active, and dominant. Men chosen as Leader in the Twenty-three five man groups of MBA students, who observer counted the number of times each student had received a nine instrument personality test Forty-two personality scales plus undergraduate scales, two of the SVIB scales. There were also significant differences on Consideration of the Survey scales, five of the MMPI scales, two of chosen for Participation, Best Ideas, and Guidance in both session four and session one. Opinion Questionnaire (California F-scale), talked. Students ranked each other on Best Ideas, Guidance, Leader, and Being Liked. Leadership Opinion Questionnaire, Public and Need for Achievement. Generally the the Ghiselli Self-Description Inventory

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

NAVAL MEDICAL RESEARCH INST BETHESDA

DEVELOPMENT OF A COMPLEX, TIME-SHARED, PERCEPTUAL-MOTOR SKILLS TASK FOR USE IN STUDIES OF ISOLATION AND CONFINEMENT.

MF022.01.03-1002-15 Smith, Seward; DESCRIPTIVE NOTE: Research rept. 24P 66 2 NAVMED MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 TESTS), (*PERFORMANCE(HUMAN), CONFINED ENVIRONMENTS), TEST CONSTRUCTION(PSYCHOLOGY), PERCEPTION(PSYCHOLOGY), MOTOR REACTIONS, PSYCHOLOGICAL TESTS, ANALYSIS OF DESCRIPTORS: VARIANCE

experimental conditions employing darkened or lighted test rooms, and (2) that typical performances are in a range such that either increments or decrements Detailed information is presented about a complex perceptual-motor skills task designed for use in the Naval Medical Research Institute's studies of isolation and confinement. Pilot data are presented demonstrating: (1) that the fully automated task is equally suitable for use during should be easily measurable. (Author)

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

HONEYWELL INC MINNEAPOLIS MINN MILITARY PRODUCTS AD- 637 260 GROUP RESEARCH ON COMPLEX PERCEPTUAL MOTOR SKILLS

3

Silver, Carl A. DESCRIPTIVE NOTE: Final rept. JUL 60 34P REPT. NO. RR-1520-TR1, CONTRACT: Nonr-3011(00)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOLOGICAL TESTS, PERCEPTION(PSYCHOLOGY)), (*PSYCHOMOTOR TESTS, STUDENTS), EXPERIMENTAL DATA, HUMAN FACTORS ENGINEERING (U)

3 perception of positive and negative correlations were mixing three random time functions. Three experiments, each using the same ten subjects, were completed using this apparatus. Thresholds for the obtained using both a two-choice and a three-choice design. A normal ogive is a satisfactory fit to An apparatus was constructed which produces any selected correlation in the range -1.0 to +1.0 by the data. (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

- 636 606 5/9 5/10 LOCKHEED-GEORGIA CO MARIETTA AD- 636 606

PERCEPTUAL-PSYCHOMOTOR TESTS IN AIRCREW SELECTIONS: HISTORICAL REVIEW AND ADVANCED CONCEPTS.

Passey, George E. : McLaurin CONTRACT: AF 41(609)-2796, 245P PROJ: AF-7719, William A. :

TR-66-4 TASK: 771904. PRL MONITOR:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*AVIATION PERSONNEL, SELECTION), (*PSYCHOMOTOR TESTS, AVIATION PERSONNEL), PERCEPTION(PSYCHOLOGY), REVIEWS IDENTIFIERS: PERSONNEL SCREENING TESTS

33

3 95 criterion definition to development and perceptual-psychomotor screening devices and comments consideration as principles on which new perceptualselection of aircrew members since World War II and provides behavioral concepts for consideration possible future test development areas. The review considers the use of flight experience as well as assessed are considered and the latter approach is simple tests as opposed to complex tests in which on the results of the programs in which such experience is intentionally used. The fundamental derivation of behavioral concepts recommended for The report reviews the literature reflecting the numerous facets of performance are concurrently employment of perceptual-psychomotor tests for psychomotor tests may be based. The merits of validation of selection devices is discussed. Recent research is reviewed leading to the recommended. (Author) importance of

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

ILLINOIS UNIV URBANA DEPT OF PSYCHOLOGY AD- 635 865

3 THE PREDICTION OF PERCEPTUAL-MOTOR LEARNING FROM INDEPENDENT VERBAL AND MOTOR MEASURES.

Konfeld, David L. DESCRIPTIVE NOTE: Master's thesis.
APR 66 37P Kohfeld, Di
CONTRACT: Nonr-1834(39), PROJ: NR-151-231,

UNCLASSIFIED REPORT

Investigation of Structure of Individual Differences in Psychological Phenomena. SUPPLEMENTARY NOTE: Project on Techniques for

3 DESCRIPTORS: (*LEARNING, *PSYCHOMOTOR TESTS), (*VERBAL BEHAVIOR, PSYCHOLOGICAL TESTS), (*PERFORMANCE(HUMAN), PSYCHOLOGICAL TESTS), MOTOR REACTIONS, PERFORMANCE(HUMAN), BEHAVIOR, RECALL, PERCEPTION(PSYCHOLOGY), STATISTICAL ANALYSIS, CORRELATION TECHNIQUES

employed as predictors to determine the relationship learning trials on a criterion task which required both motor and verbal skills. The pretests were of verbal and motor abilities to various stages of perceptual-motor performance. The results suggest motor and verbal pretests and were then given Forty human Ss were administered independent

that verbal comprehension is more important early in

perceptual-motor learning while motor skill is more

critical in later learning. (Author)

3

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SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N J

3 COEFFICIENT ALPHA AND THE RELIABILITY OF COMPOSITE MEASUREMENTS.

Novick, Melvin R. ; Lewis, DESCRIPTIVE NOTE: Technical rept. 28P APR 66

RB-66-18 ,TR-1 CONTRACT: Nonr-4866(00)

Charles ;

PROJ: NR-042-249,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 DESCRIPTORS: (*PSYCHOLOGICAL TESTS, RELIABILITY), INTELLIGENCE TESTS, THEORY

sufficient condition under which equality is attained in this inequality and hence that alpha is equal to the reliability of the test is derived and shown to coefficient alpha is derived as lower bound on the be closely related to the recent redefinition of Following a general approach due to Guttman, reliability of a test. The necessary and

Gulliksen are shown to be related to the necessary and sufficient condition derived here. It is then alpha is equal to the mean of the split-half reliabilities' is true only under the condition assumed by Cronbach in the body of his derivation related to the unit rank assumption originally adopted by Kuder and Richardson in the derivation of their formula 20. The assumption later adopted pointed out that the statement that 'coefficient concept of parallel measurements due to Novick. This condition is then also shown to be closely of this result. Finally some limitations on the uses of any function of alpha as a measure of by Jackson and Ferguson and the one adopted by internal consistency are noted. (Author)

AD- 629 856

DDC REPORT BIBLIOGRAPHY

SEARCH CONTROL NO. ZOMOB

UNCLASSIFIED

KANSAS STATE UNIV MANHATTAN

NUMBER OF ALTERNATIVES AND SEQUENCE LENGTH IN ACQUISITION OF A STEP-FUNCTION TRACKING TASK,

3

Trumbo, Don ; Noble, Merrill CONTRACT: AF-AFOSR-526-64 99 Ulrich, Lynn : 65 AUG

Skills v21 p563-9 1965. Copies to DDC users only. SUPPLEMENTARY NOTE: Availability: Published in Perceptual and Motor UNCLASSIFIED REPORT 65-2668 AFOSR , MONITOR:

DESCRIPTORS: (*TARGET ACQUISITION, TRACKING), (*TRACKING, PSYCHOMOTOR TESTS), COMBINATORIAL ANALYSIS, PERFORMANCE(HUMAN), LEARNING

tracking performance, as measured by integrated error repeating sequence and K was defined as the number The roles of two task parameters, sequence length (N) and number of alternatives in the population varied independently in a 3 X 3 factorial design with 9 Ss per cell. The major findings were that scores, is affected by increases in N, but not proportionately, while neither K nor the N X K of alternative target positions. N and K were defined as the number of targets (steps) in a interaction was significant. Relations of the results to verbal learning data are discussed irregular step-function inputs wherein N was from which the sequence was drawn (K), were examined in a tracking task. The tasks were (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOS

AD- 628 198 5/10 6/19
AEROSPACE MEDICAL RESEARCH LABS WRIGHT-PATTERSON AFB
OHIO

HUMAN PERFORMANCE AS A FUNCTION OF CHANGES IN ACOUSTIC NOISE LEVELS.

3

DESCRIPTIVE NOTE: Final rept., Jun 64-Feb 65, DEC 65 20P Shoenberger, Richard W. Harris, Charles 5.; REPT. NO. AMRL-TR-65-165, PROJ: AF-1710,

UNCLASSIFIED REPORT

TASK: 171002,

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERFORMANCE(HUMAN), NOISE), (*NOISE, PERFORMANCE(HUMAN)), ACOUSTIC PROPERTIES, INTENSITY, ANALYSIS OF VARIANCE, LEARNING, PSYCHOMOTOR (U)

Psychomotor performance of 16 subjects was evaluated under four noise conditions, during four test sessions, in a Latin square design. Three experimental conditions each began with different intensities of noise (Quiet, 85 dB, or 95 dB). After 30 minutes exposure the noise was changed to a final high intensity level (110dB), which lasted for 15 minutes. The fourth condition served as a control, in which Quiet prevailed throughout the entire 45 minute period. The results partially supported the hypothesis that greater changes in noise levels produce greater decrements in performance. There was, however, a strong interaction between noise conditions and sessions. The nature of this interaction indicated that this phenomenon does not occur uniformly throughout the importance for well learned tasks. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB

AD- 617 754 NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA COMPARATIVE EFFECTS OF PROLONGED ROTATION AT 10 RPM ON POSTURAL EQUILIBRIUM IN VESTIBULAR NORMAL AND VESTIBULAR DEFECTIVE HUMAN SUBJECTS, (U)

MAR 65 24P Fregly, Alfred R.; Kennedy Robert S.;

Robert S. ; REPT. NO. NSAM-920 PROJ: MR005 13 6001

TASK: 1 MONITOR: NAVMED , MR005.13-6001.1-108

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Joint rept. with National Aeronautics and Space Administration, Washington,

DESCRIPTORS: (*VESTIBULAR APPARATUS, ROTATION),
(*POSTURE(PHYSIOLOGY), PSYCHOMOTOR TESTS), (*PSYCHOMOTOR
TESTS, POSTURE(PHYSIOLOGY)), PERFORMANCE(HUMAN),
MUSCULOSKELETAL SYSTEM, DISEASES,
ADAPTATION(PHYSIOLOGY), STRESS(PHYSIOLOGY),
PSYCHOPHYSIOLOGY, AVIATION MEDICINE

As a means of better understanding the role of the vestibular organs in relation to ataxic responses to prolonged rotation, two contrasting groups of subjects were studied to: 1) determine quantitatively to what extent two visually-enhanced postural equilibrium test performances of labyrinthine defective subjects (L-D's) on a single rail of optimum difficulty become disturbed along the time axis of rotation (Experiment A), and 2) compare the performances of L-D's with normals in terms of postrotation effects as studied with a new standarized ataxia test battery (Experiment B). Rotation-induced ataxia was superimposed to an appreciable extend upon the previously present and characteristic vestibular ataxia in the L-D's (Exp. A), and (in Exp. B), upon cessation, there were significant decrements on all Test Battery performances of the normal group. Whereas in the L-D group significant decrements were observed only on the two visually-enhanced tests. Other findings, which were considered tests. Other findings, which were considered tests.

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PAGE

experiments. (Author)

SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIDGRAPHY

NAVAL SCHOOL OF AVIATION MEDICINE PENSACOLA FLA AD- 617 753

A NEW QUANTITATIVE ATAXIA TEST BATTERY

Graybiel, Ashton ; Fregly,

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41 P REPT. NO. NSAM-919 65 Alfred R. : MAR

MR005 13 6001

NAVMED . MONITOR:

UNCLASSIFIED REPORT

MR005.13-6001.1-107

SUPPLEMENTARY NOTE: Joint rept. with National Aeronautics and Space Administration, Washington,

3 JESCRIPTORS: (*PSYCHOMOTOR TESTS, POSTURE(PHYSIOLOGY)), (*POSTURE(PHYSIOLOGY), PSYCHOMOTOR TESTS), MUSCULOSKELETAL SYSTEM, DISEASES, PERFORMANCE(HUMAN), STRESS(PHYSIOLOGY), ROTATION, VESTIBULAR APPARATUS, PSYCHOPHYSIOLOGY, MOTION SICKNESS, AVIATION MEDICINE, RELIABILITY, MALES, FEMALES, ADAPTATION(PHYSIOLOGY) (U) DESCRIPTORS:

3 environments. High reliability, including testretest reliability, was demonstrated for each of developed to assess more precisely than heretofore battery employing the 'rail method' of testing was differences in performance, practice effects, and Test Battery relationships with several clinical-type ataxia tests were determined. Validity of the related research-clinical areas were outlined, and procedures in the laboratory, in several methodological limitations were indicated. rails of varying widths, and a Short Version employing two of these rails. Normative standards covering a wide age range, and age, height, and weight influences upon performance, tentative sex demonstrated, and present and future uses of the Test Battery in normals and auricularinvolved individuals in vestibular research as well as in A new multi-dimensional quantitative ataxia test postural equilibriumdisequilibrium under unusual two versions: a Long Version employing six the field, and in clinical situations was conditions and stresses such as rotating standardized test (Author)

UNCLASSIFIED

SOMO2 SEARCH CONTROL NO. DOC REPORT BIBLIDGRAPHY

PITTSBURGH UNIV PA ENGINEERING PSYCHOLOGY LAB AD- 605 713

3 PERFORMANCE: SIGNAL DETECTION AND TASK COMPLEXITY. INVESTIGATION OF MACHINE-ASSISTS TO OPERATOR

Regan, Richard A. ;Judd Final rept., 1 DESCRIPTIVE NOTE: JAN 64

CONTRACT: Nonr624 11 Wilson A. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 (*VISUAL SIGNALS, MONITORS), (*ATTENTION, HUMAN FACTORS ENGINEERING), (*PERFORMANCE (HUMAN), TRACKING), REACTION (PSYCHOLOGY), HUMAN FACTORS ENGINEERING, PERCEPTION (PSYCHOLOGY), OPERATORS (PERSONNEL), CHARACTER RECOGNITION, DISPLAY SYSTEMS, ANALYSIS OF VARIANCE, (L (*HUMAN FACTORS ENGINEERING, MONITORS) DESCRIPTORS:

by previous investigations, detection performance was 'acilitating properties of familiar symbolic stimuli. consisted of variation in signal rate, the number of observing responses, artificial signals and display and control complexity on operator performance. The final experiment in the series was conducted to performance. A series of investigations was carried out in the general area of signal detection decrement over time in the performance of a signal detection task. The independent variables not significantly influenced by variations in task results obtained are discussed in terms of arousal signal sources and the complexity of the required characters. Contrary to the hypothesis suggested The initial stages of the project consisted of investigate the effects of task complexity on to study the facilitating properties of overt principles and to determine im plications for post-detection response. Signals consisted of review and analysis of the human engineering literature to isolate general machine-assist changes in repeatedly presented alphabetical complexity as manipulated in this study. The theory and in terms of possible performanceapplication to the machine-aiding of human

UNCLASSIFIED

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

ILLINDIS UNIV URBANA AD- 604 466

3 EFFECTS OF VISUAL DISPLAY MODE ON SIX HOURS OF VISUAL MONITORING,

Webber, Carl E. ; Adams, Jack 15P JUN 64

CONTRACT: AF41 609 1481 PROJ: AF-7751 TASK: 775104

MONITOR: SAM

TDR64 34

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 (*PSYCHOMOTOR TESTS, ATTENTION, PERFORMANCE(HUMAN)), (*PSYCHOMOTOR TESTS, ATTENTION), PERFORMANCE (HUMAN), VISUAL ACUITY, VISUAL SIGNALS, NOISE, STIMULATION(PHYSIOLOGY), REACTION (PSYCHOLOGY), REFLEXES, PSYCHOLOGICAL TESTS, ANALYSIS OF VARIANCE DESCRIPTORS:

3 An experiment was performed to assess the effects of visual display mode and six hours of monitoring on performance in a complex vigilance task. The task had 12 stimulus sources arrayed over 60 degrees, and numeric signals that persisted for 6 seconds. Each group of 15 subjects had a different display duration. Findings supported earlier conclusions about the triviality of vigilance decrement when magnitude was essentially the same as previous studies with sessions of two to three hours' configuration: normally off, normally on, and vigilance decrement. The amount of vigilance decrement was small despite the long session, influenced overall mean performance, but not normally on with visual noise. Display mode tasks are complex. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOB

NORTHWESTERN UNIV EVANSTON ILL AD- 603 763

FACTORIAL ANALYSIS OF PRECISION, STEADINESS AND EQUILIBRIUM IN FINE MOTOR SKILLS.

3

Seashore, Robert H. ; Dudek DESCRIPTIVE NOTE: Final rept. 41P

CONTRACT: NGOri-158(11) PROJ: NR-151-132

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 LESCRIPTORS: (*PSYCHOMOTOR TESTS, PSYCHOPHYSIOLOGY), VISION, HEARING, MEASUREMENT, LABORATORY EQUIPMENT, TEST EQUIPMENT, MOTOR REACTIONS, COMBINATORIAL ANALYSIS (DESCRIPTORS:

3 psychomotor skills emphasizing precision, steadiness, and equilibrium, a battery of eleven laboratory instruments was devised, all having automatic scoring on electric counters. These tests provided a total of twenty-six measurements analyzing such factors as the effect of standing or sitting posture; sense modalities or vision, audition or equilibrium; and movements in two or three dimensions. The two analyzed by separate groups with quite consistent identification of seven group factors underlying studies on this project report correlations from three groups of psychology students factorially To provide a representative sample of fine motor precision of motor performances. (Author)

MATRIX CORP ALEXANDRIA VA AD- 602 86

USE OF AN ENGINEERING ANOLOGY IN THE DEVELOPMENT OF TESTS TO PREDICT TRACKING PERFORMANCE,

Parker, James F. , Jr.; Nonr3065 00 63P CONTRACT: FEB

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY)), (*JOB ANALYSIS, TEST CONSTRUCTION (PSYCHOLOGY)), PSYCHOMOTOR TESTS, MOTOR REACTIONS, PERFORMANCE (HUMAN), OPERATORS (PERSONNEL), PERCEPTION (PSYCHOLOGY), DISPLAY SYSTEMS, CONTROL SYSTEMS, SIMULATION, CORRELATION TECHNIQUES, DESCRIPTORS:

3 task was considered complex since it involved a dual display, second order control system characteristics, and a requirement for dual error-nulling. A total of eight hours of practice, distributed over six weeks, was required for mastery of this task. An hypothesizing a set of abilities believed to underlie complex perceptual-motor task in terms of a limited task proficiency. To the extent possible, for each hypothesized ability three tests were constructed. number of basic abilities. The criterion tracking engineering analogy of the criterion task was developed. This analogy, based on servo-mechanics theory, was used to specify the basic activities The study attempted to describe performance in a These tests were classified as paper and pencil, involved. These activities in turn were used in predictors of performance in the tracking task. It was hoped that these tests would serve as electronic, and mechanical. (Author)

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ZOMOS SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

EDUCATIONAL TESTING SERVICE PRINCETON N

INTELLIGENCE AND THE ABILITY TO LEARN

3

Duncanson, James P. Doctoral thesis, 60P DESCRIPTIVE NOTE:

REPT. NO. RB-64-29 CONTRACT: Nonr-185815, Nonr-221400 PROJ: NR150 088 ,NR151 174

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

3 (*INTELLIGENCE TESTS), LEARNING), PSYCHOMOTOR TESTS, REASONING, MEMORY(PSYCHOLOGY), PERCEPTION, VOCABULARY, VERBAL BEHAVIOR, JOB ANALYSIS, PSYCHOLOGICAL TESTS, (*LEARNING, INTELLIGENCE TESTS FACTOR ANALYSIS DESCRIPTORS:

1950's in the area of motor learning. A number of ability tests were factor analyzed in a battery which included scores made at various stages of practice on a complex pschomotor task. Inspection of the loadings indicated that abilities did contribute to are related, but that there are also learning factors concept-formation tasks is not related to the ability measures used or to performance in rote-memory tasks. tasks with the finding that learning and abilities fhis study is an attempt to clarify these learning same approach has since been applied to cognitive the learning performance, thus establishing a relationship between abilities and learning. The measures, (c) learning in one task is related to learning in others, and (d) performance in which are independent of the measured abilities. A methodological advance was made in the early performance, (b) learning performance depends upon factors which are independent of ability factors. It was concluded that (a) measured abilities are related to measured learning

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40

PAGE

(Author)

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

HARVARD MEDICAL SCHOOL BOSTON MASS

 $\hat{\epsilon}$ BUTTON-PRESSING FOR A TIME-OFF REWARD DURING SENSORY DEPRIVATION: IV. RELATION TO CHANGE IN RATINGS OF WELL-BEING,

Rossi, Ascanio M. ; Solomon, 36 JUN 64 Philip :

CONTRACT: Nonr186629

UNCLASSIFIED REPORT

Reprint from Perceptual and Motor Skills, 19,pp. 520-522, 1964. (Copies not supplied by DDC) SUPPLEMENTARY NOTE:

MOTIVATION, PSYCHUPHYSIOLOGY, ATTENSION, REACTION (PSYCHOLOGY), MOTOR REACTIONS, ANALYSIS OF VARIANCE, ADJUSTMENT (PHYCHOLOGY), PERCEPTION (PHYCHOLOGY) DESCRIPTORS:

pressed with those wno did not suggested that, while Fifteen Ss were given the opportunity to buttonpress for a promised time-off reward during a 3-hr. sensory deprivation (S-D) session. Before entering S-D, Ss rated their state of well-being by means of a semantic differential scale. Immediately after leaving S-D Ss used a copy of the same scale to rate their state of well-being while in S-D. Comparison of self ratings of Ss who buttonthere were no significant differences in well-being was found between button-pressing and a discomfort experienced a significantly greater decrement in well-being during S-D. A significant rbo of 0.60 quotient derived from the self-ratings. (Author) between groups before S-D, the button-pressers

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SEARCH CONTROL NO. DDC REPORT BIBLIDGRAPHY

AD- 442 264

ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS

CONTINUING MEMORY SPAN FOR DIGITS

Pollack, Irwin ; Johnson, 44 63

3

Lawrence ;

TDR63 430 MONITOR: ESD

Supplementary NOTE: Reprint from Perceptual and Motor Skills, Vol. 17, pp. 731-734, 1963. (Copies supplied UNCLASSIFIED REPORT

by DDC)

DESCRIPTORS: (*MEMORY(PSYCHOLOGY), PSYCHOMOTOR TESTS), (*PSYCHOMOTOR TESTS, MEMORY(PSYCHOLOGY)), PERCEPTION, DISPLAY SYSTEMS, PATTERN RECOGNITION, ACUITY, VISUAL ACUITY, FEEDBACK, EFFECTIVENESS, TEST METHODS, TABLES(DATA), MATHEMATICAL ANALYSIS IDENTIFIERS: DIGITS, MEMORY SPAN

33

3 digit presentation and is relatively constant between 2 and 4 alternatives per digit. (Author) An estimate of the continuing memory span for digits was obtained by having Ss reproduce a sequence of digits after a fixed delay. By this technique, the continuing memory span is only about three digits. The span decreases with rate of

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SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIOGRAPHY

AD- 415 728 FLORIDA STATE UNIV TALLAHASSEE

EFFECTS OF STIMULUS SIMILARITY AND DELAY ON TRANSFER OF TRAINING,

Greenspoon, Joel ; Anderson

APR 63 39P G
John E. Jr.;
CONTRACT: AF33 616 6408
PROJ: 7183
TASK: 718306
MONITOR: AMRL TDR6

TDR63 26

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TRANSFER OF TRAINING, STIMULATION(PHYSIOLOGY)), PSYCHOMOTOR TESTS, MOTOR REACTIONS, VISION, LEARNING, TEST CONSTRUCTION(PSYCHOLOGY)

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UNCLASSIFIED

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

KANSAS CITY UNIV MO AD- 414 993

THE EVOLUTION OF PERCEPTUAL FRAMES OF REFERENCE.

3

23P 63 AUG UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERCEPTION, LEARNING), (*PSYCHOMOTOR TESTS, PSYCHOLOGY), DISPLAY SYSTEMS, JOB ANALYSIS, PERFORMANCE(HUMAN), VERBAL BEHAVIOR, LIGHT IDENTIFIERS: VIGILANCE STUDIES

33

A series of reports in psychology related to perception studies.

42

PAGE

UNCLASSIFIED

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43

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOB DOC REPORT BIBLIOGRAPHY

ENGINEERING CENTER PHILADELPHIA PA AEROSPACE CREW EQUIPMENT LAB AD- 297 748 NAVAL AIR

UNCLASSIFIED

DETERMINATION OF TEST INSTRUMENTATION REQUIREMENTS FOR BIOLOGICAL AIRBORNE AND ASTRONAUTICAL TESTS. THE PSYCHOMOTOR TASK AS A MONITOR OF SUBJECT SAFETY (

BURDICK, R.L.; 2 REPT. NO.

UNCLASSIFIED REPORT

DESCRIPTORS: *PSYCHOMOTOR TESTS, PERFORMANCE(HUMAN), SAFETY DEVICES

HUMAN SUBJECTS WERE SUBJECTED TO DANGEROUS SITUATIONS IN PERFCRAING CERTAIN CLASSES OF BASIC AND APPLIED EXPERIMENTATION FOR THE PURPOSE OF EVALUATING SAFETY EQUIPMENT: THE PSYCHOMOTOR TASK AS A MONITOR OF SUBJECT SAFETY.

SEARCH CONTROL NO. ZOMOB

CALIFORNIA UNIV LOS ANGELES AD- 293 247

DYNAMICS OF SOCIAL INFLUENCE

3

RAVEN, BERTRAM H.; SEARS, DAVID O.; 62 1V NONR23354 DEC CONTRACT:

UNCLASSIFIED REPORT

3 DESCRIPTORS: *DECISION MAKING, *LEADERSHIP, *SOCIOLOGY, *SOCIOMETRICS, ATTITUDES(PSYCHOLOGY), BEHAVIOR, DETERMINATION, EFFECTIVENESS, GROUP DYNAMICS, MEASUREMENT, PROPAGANDA, PSYCHOMOTOR TESTS, PUBLIC OPINION, REPORTS DESCRIPTORS:

SOCIAL INFLUENCES ON SMALL GROUP BEHAVIOR. LEADERSHIP, JUDGMENT, AND PROPAGANDA.

GENERAL ELECTRIC CO ITHACA N Y ADVANCED ELECTRONICS AD- 293 170

HUMAN REACTIONS TO AIR IONS. PART III: THE EFFECT OF ATMOSPHERIC IONS ON HUMAN PERFORMANCE-A FURTHER

CONTRACT: NONR330500

EXPERIMENT

GRANDA, RICHARD E.; SAVAGE, BLAIR;

UNCLASSIFIED REPORT

3 JESCRIPTORS: *BEHAVIOR, *IONS, *PSYCHOLOGICAL TESTS, AIR, ANALYSIS, ATMOSPHERES, EXPERIMENTAL DATA, HUMANS, PERCEPTION, REACTION (PSYCHOLOGY), STIMULATION(PHYSIOLOGY) DESCRIPTORS:

 $\widehat{\Xi}$ investigate effects of air ions on human performance. Iwenty-four subjects worked on two psychomotor experiments strongly supports the conclusion that ions (at least up to concentrations of about 60,000 ions per cc) h ve no apparent effect on psychomotor performance in either stres or nonstress situations. positive ions, negative ions, and no ions (control case). No significant differences between tasks under experimental stress while exposed to The second of two experiments was conducted to treatments were found. Evidence from both ion

UNCLASSIFIED

SEARCH CONTROL NO. ZOMOB DDC REPORT BIBLIDGRAPHY

AD- 287 090

PSYCHOMOTOR FUNCTIONING WHILE BREATHING VARYING SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX

PARTIAL PRESSURES OF OXYGEN-NITROGEN

3

DUNN, JARED M.; UNCLASSIFIED REPORT

62

3

33 DESCRIPTORS: *PRESSURE BREATHING, *PSYCHOMOTOR TESTS, NITROGEN, OXYGEN IDENTIFIERS: PARTIAL PRESSURE

3 multidimensional pursuit task while breathing various oxygen-nitrogen mixtures. The partial pressure of nitrogen was reduced in two ways: (1) by increasing the oxygen percentage in the mixture while maintaining constant total pressure, or (2) by decreasing the total pressure while maintaining a constant partial pressure of oxygen. There were no oxygen lessened significantly the rate and magnitude regarded as correlated with the nitrogen variable. To examine the proposition that gaseous nitrogen produces some degree of narcosis under normal or significant changes in performance that could be reduced pressures, 70 subjects were tested on a of performance decrements, as noted by previous However, increments in the partial pressure of investigators. (Author)

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOS

PHYSICS ENGINEERING CHEMISTRY CORP BOULDER COLO AD- 283 460

3 EFFECTS OF IONIZED AIR ON DECISION MAKING AND VIGILANCE PERFORMANCE

CHILES.W. DEAN; FOX, RICHARD E.; AF33 616 6895 12 1V TDR62 51 REPT. NO. CONTRACT: PROJ: AF-7 MONITOR: A

TDR-62-51

UNCLASSIFIED REPORT

DESCRIPTORS: *BEHAVIOR, *DECISION MAKING, AIMOSPHERES, ATTENTION, PSYCHOLOGY, PSYCHOMOTOR TESTS (U)

3 combined, and a low ion condition. Although two of the three me sure analyzed for the vigilance task showed significant ion effects, in both instances the task. Seven ion concentrations were investigated with each task: high positive, high negative, medium subjects were tested on a complex mental task and an additional 70 were tested on a complex vigilance to the difference between these groups and the low fon group. The most parsimonious interpretation of this finding is that it resulted from some uncontrolled factor in the selection and assignment of subjects or in the conduct of the experiment. unipolar ion groups were homogeneous, and the differences in question were entirely attributable The performance effects of excesses of unipolar atmospheric ions were investigated. Seventy negative combined, medium positive and negative positive, and medium negative; three control conditions were also used: high positive and

UNCLASSIFIED

20M08 DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO.

AD- 275 974

ARMY MEDICAL RESEARCH LAB FORT KNOX KY

THE EFFECT OF TREADMILL GRADE ON PERFORMANCE DECREMENT USING A TITRATION SCHEDULE

3

EVANS, WAYNE G.: APR 62 10P NO. USAMRL-535

REPT. NO. USAMRL-535 PROJ: DA-6-X-9525001

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Rept. on Psychophysiological Studies.

3 DESCRIPTORS: *PSYCHOMOTOR TESTS, EXERCISE(PHYSIOLOGY), FATIGUE (PHYSIOLOGY), LEGS, MEASUREMENT, MOTOR REACTIONS

5 974

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SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX

PERFORMANCE UPON SUDDEN AWAKENING

LANGDON, DAVID E. ; HARTMAN, BRYCE; 1 NOV 61

UNCLASSIFIED REPORT

3 DESCRIPTORS: *PSYCHOMOTOR TESTS, *SLEEP, MILITARY PERSONNEL, STIMULATION(PHYSIOLOGY)

awakening and a progressive recovery over 10 minutes minute approached but did not reach preslesp levels. In advanced weapons systems, commanders must choose between requiring alert duty personnel to remain of intensive performance. Proficiency on the tenth Decrement in performance results from the loss of sleep, in the first instance; potential decrement instance. This report describes an experiment on performance after sudden awakening. The results demonstrated significant decrements upon sudden after sudden awakening is a risk in the second awake at night and permitting them to sleep.

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SESCRIPTORS: *AVIATION PERSONNEL, *SPACE FLIGHT, ADJUSTMENT (PSYCHOLOGY), ANALYSIS, BEHAVIOR, HUMAN FACTORS ENGINEERING, PERSONALITY, PSYCHOMOTOR TESTS, SIMULATION, SPACE CAPSULES DESCRIPTORS:

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Opinion, giving opinion, asking for information, and giving information -- accounted for over 80 percent of the interaction. There was very little interaction over-all summary profile resembled no other in the in the more affectively tinged extreme categories. The adjustive mechanisms used by the subjects to two-man simulated space chamber flight. By use of the well-known Bales Interaction Process handle the interpersonal tensions that arose from An analysis was made of crew interaction during throughout the 30-day flight. Four kinds of summary interaction profiles were compiled. The Analysis, the behavior of the two subjects was literature. The middle categories--asking for rated during 2 hours of observation each day somewhat different personality factors were discussed. (Author)

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HIGH, WALLACE S.; MACKIE, ROBERT R.;

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DESCRIPTORS: *PSYCHOMOTOR TESTS, STATISTICAL ANALYSIS, SUBMARINE PERSONNEL, TEST METHODS (M)

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MAR 57 14P REPT. NO. USAMRL-263 PROJ: DA-69520001

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3 DESCRIPTORS: *PSYCHOMOTOR TESTS, *TRACKING, ERRORS

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CONTRACT: NGON:-241
MONITOR: SPECDEVCEN 214-6-12

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DESCRIPTORS: *PSYCHOMOTOR TESTS, *RADAR TRACKING, CONTROL SYSTEMS, DISPLAY SYSTEMS, HUMAN FACTORS ENGINEERING

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DESCRIPTORS: *CONTROL KNOBS, OPERATION, PSYCHOMOTOR TESTS, RADAR OPERATORS, RADIO OPERATORS, TEST METHODS

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DESCRIPTORS: *VISION, ANALYSIS, PSYCHOMOTOR TESTS, REASONING, TARGETS, TIME, VELOCITY

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DESCRIPTORS: *PSYCHOMOTOR TESTS, ACOUSTICS, ERRORS, HEARING

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DESCRIPTORS: *MAINTENANCE PERSONNEL, MOTOR REACTIONS, PSYCHOLOGY, PSYCHOMOTOR TESTS, STRESS (PHYSIOLOGY), STRESS (PSYCHOLOGY)

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DESCRIPTORS: *POSITIONING REACTIONS, HUMAN FACTORS ENGINEERING, PSYCHOMOTOR TESTS, REASONING, SENSES(PHYSIOLOGY), TESTS

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RETROACTIVE FACILITATION AND
INTERFERENCE IN PERFORMANCE ON THE
MODIFIED TWO-HAND COORDINATOR.
AD- 639 362

SPECDEVCEN-214-6-12
THE EFFECTS OF CONTINUITY IN DISPLAY AND CONTROL MOVEMENT RELATIONSHIPS ON TWOHAND TRACKING PERFORMANCE
AD- 119 859

SPECDEVCEN-241-6-20
THE EFFECTS OF VARYING DEGREES
OF KNOWLEDGE OF RESULTS OF KNOB
SETTING PERFORMANCE
AD- 109 352

SPECDEVCEN-316-1-2
TRANSFER OF TRAINING FROM
PRACTICE ON COMPONENTS IN A MOTOR
SKILL,
AD- 641 581

SPECDEVCEN-316-1-8
TRANSFER OF TRAINING TO A MOTOR
TASK IN RELATION TO STIMULUS
SIMILARITY.
AD- 641 587

SPECDEVCEN-316-1-10
TRANSFER OF TRAINING TO A MOTOR
SKILL AS A FUNCTION OF VARIATION IN
RATE OF RESPONSE.

SPECDEVCEN-938-1-2
FACILITATION AND INTERFERENCE

NAV-SCH

EFFECTS OF VARYING THE AMOUNT OF IN PERFORMANCE ON THE MODIFIED MASHBURN APPARATUS: II. THE INTERPOLATED LEARNING. AD- 643 407

A STUDY OF WARMUP DECREMENT IN PURSUIT ROTOR PERFORMANCE. SPECDEVCEN-938-1-5 AD- 643 410

THE EFFECTS OF ALTERNATING PRACTICE ON THE PERFORMANCE OF TWO ANTAGONISTIC MOTOR TASKS. SPECDEVCEN-938-1-6 AD- 643 411

MULTIPLE-TRIALS-PER-TASK IN THE ACQUISITION OF SKILL IN PERFORMING SINGLE-TRIAL-PER-TASK VERSUS SEVERAL SIMILAR TASKS. SPECDEVCEN-938-1-7 AD- 643 412

THE EFFECTS OF LEVEL OF LEARNING AND OF OVERLEARNING ON FACILITATION AND INTERFERENCE. PROACTIVE AND RETROACTIVE SPECDEVCEN-938-1-8 * * * AD- 643 413

AN INVESTIGATION OF INDIVIDUAL SUSCEPTIBILITY TO INTERFERENCE. SPECDEVCEN-938-1-10 AD- 643 414

* * *

DEVELOPMENT CENTER SAN DIEGO CALIF *NAVY PERSONNEL RESEARCH AND NPRDC-18-76-24

Nonadaptive Training Strategies in the Acquisition of a Physically A Comparison of Adaptive and Complex Psychomotor Skill.

*NORTHWESTERN UNIV EVANSTON

EQUILIBRIUM IN FINE MOTOR SKILLS. PRECISION, STEADINESS AND

*PERSONNEL RESEARCH LAB LACKLAND AFB TEX

PERCEPTUAL-PSYCHOMOTOR TESTS IN AIRCREW SELECTIONS: HISTORICAL REVIEW AND ADVANCED CONCEPTS. PRL-TR-66-4 AD- 636 606

*PHYSICS ENGINEERING CHEMISTRY CORP BOULDER COLO

EFFECTS OF IONIZED AIR ON DECISION MAKING AND VIGILANCE (AMRL-TDR-62-51) AD- 283 460 PERFORMANCE TOR62 51

PA ENGINEERING PSYCHOLOGY LAB *PITTSBURGH UNIV

INVESTIGATION OF MACHINE-ASSISTS TO OPERATOR PERFORMANCE: SIGNAL DETECTION AND TASK COMPLEXITY. AD- 605 713 *PURDUE RESEARCH FOUNDATION LAFAYETTE

LISTENER ACCURACY AND CONCURRENT PSYCHOMOTOR ACTIVITY THE RELATIONSHIP BETWEEN (SPECDEVCEN-104-2-43) AD- 109 245 *PURDUE UNIV LAFAYETTE IND DEPT OF PSYCHOLOGICAL SCIENCES

The Prediction of Job Ability Requirements Using Attribute Data Based upon the Position Analysis Questionnaire (PAQ). AD-A035 623

*RIVERSIDE RESEARCH INST *

ZOMOS

UNCLASSIFIED

Attention upon Required Kinesthetic and Proprioceptive Discrimination, The Effects of Division of RRI-F/154 AD-A022 124

*ROCHESTER UNIV N Y

* * *

THE EFFECTS OF VARYING DEGREES KNOB OF KNOWLEDGE OF RESULTS OF (SPECDEVCEN-241-6-20) AD- 109 352

DISPLAY AND CONTROL MOVEMENT RELATIONSHIPS ON TWOHAND TRACKING PERFORMANCE THE EFFECTS OF CONTINUITY (SPECDEVCEN-214-6-12) AD- 119 859

*SCHOOL OF AEROSPACE MEDICINE BROOKS AFB TEX CREW INTERACTION DURING A THIRTY-DAY SIMULATED SPACE FLIGHT. PRELIMINARY STUDY AD- 262 581

PERFORMANCE UPON SUDDEN AWAKENING AD- 270 591

* * *

BREATHING VARYING PARTIAL PRESSURES OF OXYGEN-NITROGEN PSYCHOMOTOR FUNCTIONING WHILE * * * SAM-TDR64 34 AD- 287 090

EFFECTS OF VISUAL DISPLAY MODE ON SIX HOURS OF VISUAL MONITORING, * * * AD- 604 466

MOL: PREDICTING FOUR-HOUR LEVELS OF PSYCHOMOTOR PERFORMANCE FROM THE INITIAL HALF HOUR. SAM-TR-67-55 AD- 660 103

PERFORMANCE DECREMENT AS * * * SAM-TR-70-56

and many

FUNCTION OF SEVEN DAYS OF BEDREST. AD- 713 070

* * *

Physiologic Testing of the T-43 Passenger Oxygen Mask. AD- 783 237 SAM-TR-74-9

Laboratory Assessment of Pilot Performance Using Nonrated Subjects at Three Alcohol Dose Levels.

AD-A007 727 SAM-TR-74-27

An Automated System to Assess Pilot Performance in a Link GAT-1 SAM-TR-74-41

AD-A004 780 rainer.

Human Amino Acid Excretion Prolonged Multistressor Tests, AD-A008 227 Patterns during and Following SAM-TR-74-351

SAM-TR-75-20 NEPTUNE: Modifications and Current Applications. AD-A016 722 *SOUTH DAKOTA UNIV VERMILLION DEPT OF PSYCHOLOGY * * *

Instruction in Developing
Psychomotor Skills Related to Heavy Uses of Computer-Assisted Machine Operation. (ARI-TR-77-TH1) AD-A050 888

CALIF STANFORD UNIV FUNCTIONAL FIXEDNESS AS RELATED TO PROBLEM SOLVING: A REPETITION OF THREE EXPERIMENTS AD- 006 119

GRADUATE SCHOOL CALIF *STANFORD UNIV OF BUSINESS

PERSONALITY DIFFERENCES BETWEEN EXTREME PERFORMERS DURING A FOURTH DISCUSSION SESSION. AD- 637 823 *TEXAS UNIV GALVESTON MEDICAL BRANCH

PERCEPTUAL-MOTOR PERFORMANCE RELATED TO IMPULSIVENESS AND ANXIETY,

AD- 663 697

* * *

THE RELATIONSHIP OF ANXIETY AND IMPULSIVENESS FACTORS AMONG HIGH SCHOOL MALES, AD- 664 102

*TUFTS UNIV MEDFORD MASS PSYCHOLOGICAL RESEARCH

PERSISTENCE OF OCULAR ROTATION FOLLOWING COMPENSATION FOR DISPLACED VISION, (AFOSR-66-1163) AD- 640 795

*TULANE UNIV NEW ORLEANS LA DEPT OF PSYCHOLOGY Individual Differences in Motor and Verbal Skills. (AFOSR-TR-71-0718)

AD- 720 848

*WRIGHT AIR DEVELOPMENT CENTER WRIGHT-PATTERSON AFB OHIO

TRANSFER OF TRAINING IN A SIMPLE MOTOR SKILL ALONG THE SPEED DIMENSION AD- 032 537 WADC-TR-53-498

20MOS 0-7 UNCLASSIFIED

SUBJECT INDEX

on complex psychomotor performance. Reprint: Effects of vibration *ACCELERATION TOLERANCE PSYCHOMOTOR TESTS AD- 708 114

Computerized Adaptive Testing (1st) Washington, D. C., June 12 and 13, Proceedings of the Conference on *ADAPTIVE SYSTEMS AD-A024 734 1975.*

Following Prolonged Multistressor Reprint: Human Amino Acid Excretion Patterns during and *AMINO ACIDS AD-A008 227

Reprint: The relationship of anxiety and impulsiveness factors among high school males. PSYCHOLOGICAL TESTS * ANX IETY

Reprint: Perceptual-motor impulsiveness and anxiety. performance related to PSYCHOMOTOR TESTS AD- 663 697

Requirements Using Attribute Data Based upon the Position Analysis The Prediction of Job Ability Questionnaire (PAQ).* *APTITUDE TESTS AD-A035 623

The Effects of Division of Attention upon Required Kinesthetic and Proprioceptive Discrimination, * AD-A022 124 *ATTENTION

A FIELD STUDY OF A VIGILANCE ARMY PERSONNEL AD- 806 432 TASK, *

Investigation of machine-assists to operator performance: Signal detection and task complexity. HUMAN FACTORS ENGINEERING AD- 605 713

on six hours of visual monitoring. Effects of visual display mode PERFORMANCE (HUMAN)

DETERMINANTS OF PERFORMANCE LEVEL, TASK CHOICE AND ATTITUDES.* GOALS AND INTENTIONS AS *ATTITUDES(PSYCHOLOGY)
PERFORMANCE(HUMAN) AD- 604 466 AD- 646 392

Laboratory Assessment of Pilot Performance Using Nonrated Subjects at Three Alcohol Dose Levels.* *AVIATION MEDICINE AD-A007 727

CREW INTERACTION DURING A THIRTY-DAY SIMULATED SPACE FLIGHT.
PRELIMINARY STUDY* *AVIATION PERSONNEL

PERCEPTUAL-PSYCHOMOTOR TESTS IN AIRCREW SELECTIONS: HISTORICAL REVIEW AND ADVANCED CONCEPTS.* AD- 636 606 SELECT ION

MAKING AND VIGILANCE EFFECTS OF IONIZED AIR ON PERFORMANCE. 4D- 283 460 DECISION *BEHAVIOR

THE EFFECTS OF AIR IONS ON HUMAN PERFORMANCE DURING PSYCHOMOTOR

AD- 293 170 MOTIVATION

DETERMINANTS OF PERFORMANCE LEVEL, GOALS AND INTENTIONS AS

TASK CHOICE AND ATTITUDES. * AD- 646 392

The Effects of Body Armor and Load-Carrying Equipment on Psychomotor Performance. * AD-A014 978 *BODY ARMOR

Quarterly Bulletin of the Division of Mechanical Engineering Establishment, Ottawa, 1 April to 30 June, 1976.* AD-A030 533 and the National Aeronautical *CIRCADIAN RHYTHMS

Operation on the Move: *COMMAND AND CONTROL SYSTEMS OPERATORS (PERSONNEL) Feasibility Study.* AD- 738 133 *COMPUTER AIDED INSTRUCTION
Uses of Computer-Assisted
Instruction in Developing
Psychomotor Skills Related to Heavy Machine Operation. * AD-A050 888

Proceedings of the Conference on Computerized Adaptive Testing (1st) Washington, D. C., June 12 and 13, *COMPUTER APPLICATIONS AD-A024 734

Division of Mechanical Engineering Establishment, Ottawa, 1 April to and the National Aeronautical Quarterly Bulletin of the *COMPUTERIZED SIMULATION 30 June, 1976.* AD-A030 533

Computerized Ability Testing, 1972-1975.* *COMPUTERS

*CONFINED ENVIRONMENTS

D-1 UNCLASSIFIED

USE OF THE EXPERIMENTAL METHOD FOR EVALUATIONS OF PERFORMANCE IN HUMAN FACTORS ENGINEERING MULTI-MAN SYSTEMS.*

DEVELOPMENT OF A COMPLEX, TIME-SHARED, PERCEPTUAL-MOTOR SKILLS TASK FOR USE IN STUDIES OF ISOLATION AND CONFINEMENT.* PSYCHOMOTOR TESTS AD- 637 817

LEVELS OF PSYCHOMOTOR PERFORMANCE FROM THE INITIAL HALF HOUR.* PREDICTING FOUR-HOUR CONFINEMENT (PSYCHOLOGY) PSYCHOMOTOR TESTS AD- 660 103

THE EFFECTS OF VARYING DEGREES OF KNOWLEDGE OF RESULTS OF KNOB SETTING PERFORMANCE* CONTROL KNOBS AD- 109 352

Investigation and Evaluation of a Zero Input Tracking Analyzer (ZITA).* *DATA PROCESSING AD-A025 431

SOCIAL INFLUENCES ON SMALL GROUP BEHAVIOR. LEADERSHIP, JUDGMENT, AND MAKING AND VIGILANCE IONIZED AIR ON *DECISION MAKING EFFECTS OF PERFORMANCE. PROPAGANDA. AD- 283 460 DECISION

The Effects of Division of Attention upon Required Kinesthetic and Proprioceptive Discrimination, * *DISCRIMINATION AD-A022 124

AD- 293 247

RAIL TEST TO EVALUATE *EQUILIBRIUM(PHYSIOLOGY) PSYCHOMOTOR TESTS

EQUILIBRIUM IN LOW-LEVEL WIDEBAND AD- 643 315 NOISE. *

ROTATION

rotation following compensation for Reprint: Persistence of ocular displaced vision. AD- 640 795

PERFORMANCE DECREMENT AS A FUNCTION OF SEVEN DAYS OF BEDREST.* *FATIGUE (PHYSIOLOGY) PSYCHOMOTOR TESTS AD- 713 070

Pilot Performance in a Link GAT-1 An Automated System to Assess *FLIGHT TRAINING Trainer.* AD-A004 780

USE OF THE EXPERIMENTAL METHOD FOR EVALUATIONS OF PERFORMANCE IN *GROUP DYNAMICS CONFINED ENVIRONMENTS MULTI-MAN SYSTEMS.*

PERSONALITY DIFFERENCES BETWEEN EXTREME PERFORMERS DURING A FOURTH DISCUSSION SESSION.* PERSONALITY AD- 637 823

The Effects of Body Armor and Load-Carrying Equipment on Psychomotor Performance.* AD-A014 978 *HARNESSES

Percent Oxygen on Short-Term Memory of Military Officers While Under The Effect of Breathing 100 *HEAT STRESS(PHYSIOLOGY) Heat Stress.* AD-A018 321

*HUMAN FACTORS ENGINEERING CONFINED ENVIRONMENTS

USE OF THE EXPERIMENTAL METHOD FOR EVALUATIONS OF PERFORMANCE IN MULTI-MAN SYSTEMS.* AD- 638 183

MONITORS

Investigation of machine-assists to operator performance: Signal detection and task complexity. AD- 605 713

*INTERFERENCE

The Effects of Division of Attention upon Required Kinesthetic and Proprioceptive Discrimination,* AD-A022 124

THE EFFECTS OF AIR IONS ON HUMAN PERFORMANCE DURING PSYCHOMOTOR AD- 293 170 TASKS. *IONS

Requirements Using Attribute Data Based upon the Position Analysis Questionnaire (PAQ).* The Prediction of Job Ability FJOB ANALYSIS AD-A035 623

Characteristics in Marine Corps Classification and Assignment.* The Use of Worker AD-A044 854

the development of tests to predict Use of engineering anology in TEST CONSTRUCTION (PSYCHOLOGY) tracking performance. AD- 602 861

SOCIAL INFLUENCES ON SMALL GROUP BEHAVIOR. LEADERSHIP, JUDGMENT, AND PROPAGANDA. AD- 293 247 *LEADERSHIP

PERSONALITY DIFFERENCES BETWEEN EXTREME PERFORMERS DURING A FOURTH DISCUSSION SESSION.+ GEGUP DYNAMICS

The Effects of Learning Through Replications of a Simple Serial AD- 787 446 . LEARNING

Individual Differences in Motor and Verbal Skills.* ANALYSIS OF VARIANCE AD- 720 848 INTELLIGENCE TESTS (*INTELLIGENCE TES Intelligence and the ability to AD- 602 354

THE EFFECTS OF LEVEL OF LEARNING AND OF OVERLEARNING ON PROACTIVE AND RETROACTIVE FACILITATION AND INTERFERENCE. * INTERFERENCE AD- 643 413

TRANSFER OF TRAINING FROM
PRACTICE ON COMPONENTS IN A MOTOR MOTOR REACTIONS AD- 641 581

TRANSFER OF TRAINING TO A MOTOR SKILL AS A FUNCTION OF VARIATION IN RATE OF RESPONSE.* 4D- 641 586

TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY. * AD- 641 587

Reprint: The learning o' psychomotor skills.

FACILITATION AND INTERFERENCE PERFORMANCE ON THE MODIFIED MASHBURN APPARATUS: II. THE EFFECTS OF VARYING THE AMOUNT OF NTERPOLATED LEARNING. * PERFORMANCE (HUMAN) AD- 643 407

Z

A STUDY OF WARMUP DECREMENT IN PURSUIT ROTOR PERFORMANCE.* AD- 643 410

SINGLE-TRIAL-PER-TASK VERSUS

MULTIPLE-TRIALS-PER-TASK IN THE ACQUISITION OF SKILL IN PERFORMING SEVERAL SIMILAR TASKS.* AD- 643 412

Prediction of perceptual-motor learning from independent verbal and motor measures. PSYCHOMOTOR TESTS AD- 635 865 *MAINTENANCE PERSONNEL COMBINED ENVIRONMENTAL STRESSES AND MANUAL DEXTERITY*

Tracking While Monitoring.* Multiple Display Monitoring. *MAN MACHINE SYSTEMS AD- 726 146 AD- 089 327 MONITORS 111.

Characteristics in Marine Corps Classification and Assignment.* The Use of Worker *MANPOWER UTILIZATION AD-A044 854

Characteristics in Marine Corps Classification and Assignment.* The Use of Worker *MARINE CORPS PERSONNEL AD-A044 854

The Effect of Breathing 100 Percent Oxygen on Short-Term Memory of Military Officers While Under *MEMORY (PSYCHOLOGY) Heat Stress.* AD-A018 321

CONTINUING MEMORY SPAN FOR PSYCHOMOTOR TESTS AD- 442 264 DIGITS, *

GOALS AND INTENTIONS AS DETERMINANTS OF PERFORMANCE LEVEL, TASK CHOICE AND ATTITUDES.* *MOTIVATION BEHAVIOR

AD- 646 392

Attention upon Required Kinesthetic and Proprioceptive Discrimination,* The Effects of Division of *MOTOR REACTIONS AD-A022 124

o Reprint: The learning psychomotor skills. AD- 666 709 REVIEWS

TRANSFER OF TRAINING FROM TRANSFER OF TRAINING FROM PRACTICE ON COMPONENTS IN A MOTOR SKILL, *

SKILL AS A FUNCTION OF VARIATION IN RATE OF RESPONSE.* TRANSFER OF TRAINING TO A MOTOR AD- 641 581 AD- 641 586

TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY. * AD- 641 587

A PRELIMINARY EVALUATION OF SHORT PSYCHOMOTOR TEST. * PSYCHOMOTOR TESTS *NAVAL AVIATION AD- 651 809

A Comparison of Adaptive and Nonadaptive Training Strategies in the Acquisition of a Physically Complex Psychomotor Skill.* *NAVAL PERSONNEL AD-A018 880

An Investigation of Some Effects of Physical Fitness on Performance. * AD- 733 228 EXERCISE

A PRELIMINARY EVALUATION OF SHORT PSYCHOMOTOR TEST.* PSYCHOLOGICAL TESTS AD- 651 809

UNCLASSIFIED

ZOMOS

NOI-PER

EQUILIBRIUM IN LOW-LEVEL WIDEBAND MOTOR REACTIONS RAIL TEST TO EVALUATE ND- 643 315

Human performance as a function of changes in acoustic noise PERFORMANCE (HUMAN) AD- 628 198

Operation on the Move: Feasibility Study.* *OPERATORS (PERSONNEL) AD- 738 133 MOBILE

Investigation and Evaluation of a Zero Input Tracking Analyzer *OPTICAL TRACKING AD-A025 431

Physiologic Testing of the T-43 Passenger Oxygen Mask.* AD- 783 237 DXYGEN MASKS

psychology related to perception A series of reports in AD- 414 993 * PERCEPTION studies. LEARNING

Development of an Enlisted Psychomotor/Perceptual Test *PERCEPTION (PSYCHOLOGY) Battery. * AD-A020 544

Investigation of machine-assists to operator performance: Signal detection and task complexity. *PERFORMANCE (HUMAN) TRACKING

*PERFORMANCE TESTS

Development of an Enlisted Psychomotor/Perceptual Test AD-A020 544 Battery.*

Performance Measurement. * Psychomotor/Perceptual Test Validation of a AD-A029 850

Battery.* AD-A044 525

drug Guessing by Normal Volunteers. Reprint: Drugs and Placebos: *PERFORMANCE (HUMAN) AD- 774 131

An Automated System to Assess Pilot Performance in a Link GAT-1 Trainer.*

Human Performance and Biorhythms.* AD-A004 780

Attention upon Required Kinesthetic and Proprioceptive Discrimination.* The Effects of Division of AD-A022 124 AD-A017 537

Aviator Selection 1919-1977.* AD-A048 105

GOALS AND INTENTIONS AS DETERMINANTS OF PERFORMANCE LEVEL, TASK CHOICE AND ATTITUDES.* ATTITUDES (PSYCHOLOGY) AD- 646 392

PERFORMANCE DECREMENT AS A FUNCTION OF SEVEN DAYS OF BEDREST.* AD- 713 070 ATTRITION

CONFINED ENVIRONMENTS

DEVELOPMENT OF A COMPLEX, TIME—
SHARED, PERCEPTUAL-MOTOR SKILLS

TASK FOR USE IN STUDIES OF
ISOLATION AND CONFINEMENT.* AD- 637 817

FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED MASHBURN APPARATUS: II. INTERFERENCE

UNCLASSIFIED

ö EFFECTS OF VARYING THE AMDUNT INTERPOLATED LEARNING.*
AD- 643 407

A STUDY OF WARMUP DECREMENT IN PURSUIT ROTOR PERFORMANCE.* AD- 643 410

SINGLE-TRIAL-PER-TASK VERSUS MULTIPLE-TRIALS-PER-TASK IN THE ACQUISITION OF SKILL IN PERFORMING SEVERAL SIMILAR TASKS.*

AN INVESTIGATION OF INDIVIDUAL SUSCEPTIBILITY TO INTERFERENCE. * AD- 643 412 AD- 643 414

THE EFFECTS OF LEVEL OF LEARNING AND OF OVERLEARNING ON PROACTIVE AND RETROACTIVE FACILITATION AND INTERFERENCE. * AD- 643 413 LEARNING

MATHEMATICAL PREDICTION Reprint: Intelligence Profile in the Prediction of Psychomotor Skills, Perseverance, and Leadership.

The Development and Statistical Evaluation of a Recruit Training Performance Test.* NAVAL PERSONNEL AD- 760 307

Human performance as a function of changes in acoustic noise AD- 628 198 levels. NOISE

Prediction of perceptual-motor learning from independent verbal and motor measures. PSYCHOLOGICAL TESTS AD- 635 865

THE RESPONSE ANALYSIS TESTER (RATER) AND LOGICAL INFERENCE TESTER (LOGIT): I. SOME TEST EQUIPMENT

PRELIMINARY FINDINGS.* AD- 650 182

TRACK WHILE SCAN
Multiple Display Monitoring.

III. Tracking While Monitoring.*
AD- 726 146

*PERSONALITY
SPECTRAL ANALYSIS AND THE STUDY
OF INDIVIDUAL DIFFERENCES IN THE
PERFORMANCE OF ROUTINE, REPETITIVE
TASKS.*
AD- 006 236
Reprint: Drugs and Placebos:
drug Guessing by Normal Volunteers.

drug Guessing by Normal Volunteer AD-774 131

*PERSONNEL SELECTION
The Prediction of Job Ability
Requirements Using Attribute Data
Based upon the Position Analysis
Questionnaire (PAQ).*

The Use of Worker
Characteristics in Marine Corps
Classification and Assignment.*
AD-A044 854
AD-A048 105

*PHYSICAL FITNESS
NAVAL PERSONNEL
An Investigation of Some Effects
of Physical Fitness on
Performance.*

RESPONSE (BIOLOGY)
PERFORMANCE DECREMENT AS A FUNCTION OF SEVEN DAYS OF BEDREST.*
AD- 713 070

*PILOTS
Laboratory Assessment of Pilot
Laboratory Assessment of Pilot
Performance Using Nonrated Subjects
at Three Alcohol Dose Levels.*
AD-A007 727
Aviator Selection 1919-1977.*

AD-A048 105

PSYCHOMOTOR TESTS
PRELIMINARY INVESTIGATION FOR
DEVELOPMENT OF AN ELECTRONIC
PSYCHOMOTOR SKILL TESTER OF V/STOL
PILOTS.*
AD- 684 304

*POSITIONING REACTIONS
THE JUDGMENT OF ANGULAR
POSITIONS IN THE HORIZONTAL PLANE
ON THE BASIS OF KINESTHETIC CUES*
AD- 081 714

*POSTURE(PHYSIOLOGY)
PSYCHOMOTOR TESTS
New quantitative ataxia test
battery.
AD-617 753

Comparative effects of prolonged rotation at 10 rpm on postural equilibrium in vestibular normal and vestibular defective human subjects.

*PRESSURE BREATHING
GASEOUS NITROGEN PRODUCES SOME
DEGREE
OF NARCOSIS UNDER NORMAL
OR REDUCED
PRESSURES. SEVENTY
SUBJECTS WERE TESTED ON A
MULTIDIMENSIONAL PURSUIT TASK
WHILE BREATHING VARIOUS
OXYGENNITROGEN MIXTURES. THE
PARTIAL PRESSURE OF NITROGEN
WAS REDUCED BY INCREASING
OXYGEN PERCENTAGE MAINTAINING
CONSTANT TOTAL PRESSURE, OR BY
DECREASING THE TOTAL PRESSURE
WHILE MAINTAINING A
CONSTANT
PARTIAL PRESSURE OF OXYGEN.

*PROPRICEPTION
VISION
Reprint: Persistence of ocular rotation following compensation for displaced vision.

*PROTECTIVE CLOTHING The Effects of Layers of Cold

Weather Clothing and Type of Liner on the Psychomotor Performance of Men.* AD-A043 835 *PSYCHOLOGICAL TESTS
THE EFFECTS OF AIR IONS ON HUMAN
PERFORMANCE DURING PSYCHOMOTOR

AD- 293 170
Validation of a
Psychomotor/Perceptual Test
Battery.*
AD-A044 525

NAVAL PERSONNEL
A PRELIMINARY EVALUATION OF A
SHORT PSYCHOMOTOR TEST.*
AD- 651 809

PERCEPTION(PSYCHOLOGY)
RESEARCH ON COMPLEX PERCEPTUAL
MOTOR SKILLS.*
AD- 637 260

PERSONALITY
Reprint: Intelligence Profile
in the Prediction of Psychomotor
Skills, Perseverance, and
Leadership.

AD- 714 534

RELIABILITY
CGEFFICIENT ALPHA AND THE
RELIABILITY OF COMPOSITE
MEASUREMENTS.*

AD- 633 840
AN INVESTIGATION OF INDIVIDUAL SUSCEPTIBILITY TO INTERFERENCE.*
AD- 643 414

*PSYCHOMOTOR FUNCTION
A Comparison of Adaptive and
Nonadaptive Training Strategies in
the Acquisition of a Physically
Complex Psychomotor Skill.*

The Effects of Layers of Cold Weather Clothing and Type of Liner on the Psychomotor Performance of Men.*

> D-5 UNCLASSIFIED

ZOMOB

Division of Mechanical Engineering The Prediction of Job Ability Psychomotor/Perceptual Test performance related to EQUILIBRIUM (PHYSIOLOGY) Questionnaire (PAQ).* Validation of a AVIATION PERSONNEL 30 June, 1976.* AD-A030 533 AD-A035 623 Battery. * AD-A044 525 AD- 663 697 AD- 604 466 AD- 636 606 AD- 637 817 AD- 643 315 INHIBITION ATTENTION ANXIETY HUMAN SUBJECTS WERE SUBJECTED TO DANGEROUS SITUATIONS IN PERFORMING CERTAIN CLASSES OF BASIC AND APPLIED EXPERIMENTATION FOR SUBJECT Proceedings of the Conference on Computerized Adaptive Testing (1st) The Effects of Learning Through Washington, D. C., June 12 and 13, ó NITROGEN EVALUATING SAFETY GASEQUS NITROGEN PRODUCES SOME **PSYCHOMOTOR** OF NARCOSIS UNDER NORMAL CONSTANT CONSTANT TOTAL PRESSURE, OR BY DECREASING THE TOTAL PRESSURE Investigation and Evaluation SUBJECTS WERE TESTED ON A MULTIDIMENSIONAL PURSUIT TASK WHILE BREATHING VARIOUS OXYGENNITROGEN MIXTURES. THE PARTIAL PRESSURE OF NITROG WAS REDUCED BY INCREASING OXYGEN PERCENTAGE MAINTAINING Computerized Ability Testing Replications of a Simple Serial a Zero Input Tracking Analyzer Modifications and Development of an Enlisted Validation of Two Aircrew Quarterly Bulletin of the WHILE MAINTAINING A COPPARTIAL PRESSURE OF DXYGEN. Psychomotor/Perceptual Test Current Applications.* TASK AS A MONITOR OF Psychomotor Tests.* EQUIPMENT: THE NEPTUNE: 1972-1975.* OR REDUCED PURPOSE OF AD- 787 446 AD- 287 090 AD- 297 748 AD- 777 830 AD-A016 722 Battery. * AD-A020 544 AD-A024 516 AD-A024 734 DEGREE SAFETY. Instruction in Developing Psychomotor Skills Related to Heavy Machine Operation.* THE EFFECT OF TREADMILL GRADE ON FUNCTIONAL FIXEDNESS AS RELATED TO PROBLEM SOLVING: A REPETITION OF SPECTRAL ANALYSIS AND THE STUDY OF INDIVIDUAL DIFFERENCES IN THE PERFORMANCE OF ROUTINE, REPETITIVE THE DEVELOPMENT OF A STATIC TARGET APPARATUS AND TASKS FOR THE STUDY OF CONTROL AND RETICLE THE EFFECTS OF CONTINUITY IN DISPLAY AND CONTROL MOVEMENT RELATIONSHIPS ON TWOHAND TRACKING THE EFFECT OF TARGET FREQUENCY ON PURSUIT TRACKING* THE RELATIONSHIP BETWEEN LISTENER ACCURACY AND CONCURRENT PSYCHOMOTOR ACTIVITY* A CORRELATION STUDY OF NAVY COMPETITIVE EXAMINATIONS FOR ADVANCEMENT IN RATING AND JOB PERFORMANCE DECREMENT USING A SUBMARINE ENLISTED PERSONNEL+ SAMPLE PERFORMANCE TESTS FOR Uses of Computer-Assisted THE AMOUNT OF INFORMATION PRESENTED AS A PARAMETER OF PERFORMANCE UPON SUDDEN TRACKING PERFORMANCE* TITRATION SCHEDULE+ THREE EXPERIMENTS* CHARACTERISTICS* *PSYCHOMOTOR TESTS PERFORMANCE * AWAKENING* 4D- 109 245 AD- 006 236 AD- 064 626 AD-A043 835 4D- 006 119 4D- 119 859 AD-A050 888 AD- 062 101 ND- 125 587 ND- 143 493 10- 270 591 TASKS*

Establishment, Ottawa, 1 April to and the National Aeronautical

Requirements Using Attribute Data Based upon the Position Analysis

Reprint: Perceptual-motor impulsiveness and anxiety. Effects of visual display mode on six hours of visual monitoring PERCEPTUAL-PSYCHOMOTOR TESTS IN AIRCREW SELECTIONS: HISTORICAL REVIEW AND ADVANCED CONCEPTS.*

CONFINED ENVIRONMENTS
DEVELOPMENT OF A COMPLEX, TIMESHARED, PERCEPTUAL-MOTOR SKILLS ISOLATION AND CONFINEMENT. * TASK FOR USE IN STUDIES OF

RAIL TEST TO EVALUATE EQUILIBRIUM IN LOW-LEVEL WIDEBAND

THE EFFECTS OF ALTERNATING PRACTICE ON THE PERFORMANCE OF ANTAGONISTIC MOTOR TASKS.*

AD- 643 411

LEARNING
Prediction of perceptual-motor
learning from independent verbal
and motor measures.

MEMORY(PSYCHOLOGY)
CONTINUING MEMORY SPAN FOR
DIGITS.*
AD- 442 264

NAVAL AVIATION A PRELIMINARY EVALUATION OF SHORT PSYCHOMOTOR TEST.* AD- 651 809

•

PERFORMANCE (HUMAN)

Evaluation of difficulty of task
under several different conditions
of performance of the modified
mashburn apparatus.
AD- 639 293

ASSOCIATIVE interference in psychomotor performance: Problem of controlling level of learning.

AD- 639 294

RETROACTIVE FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED TWO-HAND COORDINATOR.*

Aur 039 302
Three Explanations of Temporal Changes in Ability-Skill Relationships: Literature Review and Theoretical Analysis.*

PILOTS
PRELIMINARY INVESTIGATION FOR
DEVELOPMENT OF AN ELECTRONIC
PSYCHOMOTOR SKILL TESTER OF V/STOL
PILOTS.*
AD- 684 304

POSTURE(PHYSIOLOGY)
New quantitative ataxia test
battery.
AD- 617 753

Comparative effects of prolonged

rotation at 10 rpm on postural

equilibrium in vestibular normal and vestibular defective human subjects. AD- 617 754 PSYCHOLOGY
A series of reports in psychology related to perception studies.

PSychophysiology
Factorial analysis of precision,
steadiness and equilibrium in fine
motor skills.
AD- 603 763

RELAXATION(PHYSIOLOGY)
Reprint: Effects of immobilization: behavioural and eeg changes.
AD- 644 481

SPACE CREWS

MOL: PREDICTING FOUR-HOUR

LEVELS OF PSYCHOMOTOR PERFORMANCE

FROM THE INITIAL HALF HOUR.*

AD- 660 103

STUDENTS

RESEARCH ON COMPLEX PERCEPTUAL

MOTOR SKILLS.*

AD- 637 260

TEST EQUIPMENT
Reprint: Devices for studying associative interference in psychomotor performance: I. The modified mashburn apparatus.
AD- 639 292
Devices for studying

interference in psychomotor performance: The double-disk pursuit apparatus.

AD- 639 304 associative interference in psychomotor performance: IV. the

turret pursuit apparatus. AD- 639 305 Reprint: Devices for studying

associative interference in psychomotor performance: II. the modified two-hand coordinator.

The Development of Equipment for Psychomotor Assessment,* AD- 732 210 VIBRATION

Human Performance as a Function
of Direction and Frequency of WholeBody Vibration.*
AD- 719 745

*RADAR TRACKING
THE EFFECTS OF CONTINUITY IN
DISPLAY AND CONTROL MOVEMENT
RELATIONSHIPS ON TWOHAND TRACKING
PERFORMANCE*
AD- 119 859

*RELAXATION(PHYSIOLOGY)
PSYCHOMOTOR TESTS
Reprint: Effects of immobilization: behavioural and eeg changes.

AD- 644 481

*RHYTHM(BIOLOGY)
Human Performance and
Biorhythms.*
AD-A017 537

*SENSORY DEPRIVATION

PSYCHOMOTOR TESTS
BUTTON-PRESSING FOR A TIME-OFF
REWARD DURING SENSORY DEPRIVATION:
IV. RELATION TO CHANGE IN RATINGS
OF WELL-BEING.*

*SLEEP
PERFORMANCE UPON SUDDEN
AWAKENING*
AD- 270 591

*SOCIOLOGY SOCIAL INFLUENCES ON SMALL GROUP BEHAVIOR. LEADERSHIP, JUDGMENT, AND PROPAGANDA.

> D-7 UNCLASSIFIED

ZOMOS

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA PSYCHOLOGICAL TESTS.(U) SEP 78 AD-A058 500 F/G 5/2 UNCLASSIFIED DDC/618-78/06 NL END 6 OF 6 DATE FILMED AD A058500 Idition man. DDC

THE VALUE OF THE PERSON

SOCIAL INFLUENCES ON SMALL GROUP BEHAVIOR. LEADERSHIP, JUDGMENT, AND PROPAGANDA. * SOCIOMETRICS ND- 293 247

CREW INTERACTION DURING A THIRTY-DAY SIMULATED SPACE FLIGHT. PRELIMINARY STUDY+ SPACE FLIGHT AD- 262 581

Following Prolonged Multistressor Reprint: Human Amino Acid Excretion Patterns during and *STRESS(PHYSIOLOGY) Tests.

Percent Dxygen on Short-Term Me.nory of Military Officers While Under The Effect of Breathing 100 Heat Stress.* AD-A008 227

Quarterly Bulletin of the Division of Mechanical Engineering and the National Aeronautical Establishment, Ottawa, 1 April to AD-A018 321

30 June, 1976.*

Following Prolonged Multistressor Reprint: Human Amino Acid Excretion Patterns during and *STRESS(PSYCHOLOGY) AD-A030 533 Tests.

Reprint: Number of alternatives and sequence length in acquisition of a step-function tracking task. *TARGET ACQUISITION AD-A008 227 4D- 629 856 TRACKING

The Development of Equipment for Psychomotor Assessment,* PSYCHOMOTOR TESTS *TEST EQUIPMENT AD- 732 210

Human Performance and Biorhythms.* AD-A017 537

Tracking While Monitoring.* Multiple Display Monitoring PERFORMANCE (HUMAN) *TRACK WHILE SCAN AD- 726 146

THE EFFECT OF TARGET FREQUENCY THE AMOUNT OF INFORMATION PRESENTED AS A PARAMETER OF TRACKING PERFORMANCE+ ON PURSUIT TRACKING. AD- 064 626 AD- 125 587 *TRACKING

Use of engineering anology in the development of tests to predict tracking performance. PERFORMANCE (HUMAN) AD- 602 861

Reprint: Number of alternatives and sequence length in acquisition of a step-function tracking task. PSYCHOMOTOR TESTS

ANALYSIS OF VARIANCE
THE EFFECTS OF ALTERNATING
PRACTICE ON THE PERFORMANCE OF TWO ANTAGONISTIC MOTOR TASKS.* AD- 643 411 *TRAINING

A Comparison of Adaptive and Nonadaptive Training Strategies in the Acquisition of a Physically Complex Psychomotor Skill.* *TRAINING DEVICES AD-A018 880

TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY.* DESIGN

TRANSFER OF TRAINING FROM PRACTICE ON COMPONENTS IN A MOTOR DISPLAY SYSTEMS SKILL. *

SKILL AS A FUNCTION OF VARIATION IN RATE OF RESPONSE.* AD- 641 581 AD- 641 586

TRANSFER OF TRAINING IN A SIMPLE MOTOR SKILL ALONG THE SPEED *TRANSFER OF TRAINING DIMENSION* AD- 032 537

PRACTICE ON COMPONENTS IN A MOTOR TRANSFER OF TRAINING FROM MOTOR REACTIONS AD- 641 581

SKILL AS A FUNCTION OF VARIATION IN TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY.* TRANSFER OF TRAINING TO A MOTOR RATE OF RESPONSE. * AD- 641 587

AND DELAY ON TRANSFER OF TRAINING, * AD- 415 728 STIMULATION(PHYSIOLOGY)
EFFECTS OF STIMULUS SIMILARITY

Prediction of perceptual-motor learning from independent verbal PSYCHOLOGICAL TESTS and motor measures. *VERBAL BEHAVIOR AD- 635 865

Comparative effects of prolonged rotation at 10 rpm on postural equilibrium in vestibular normal and vestibular defective human *VESTIBULAR APPARATUS ects. ROTATION

*VIBRATION
PSYCHOMOTOR TESTS
Reprint: Effects of vibration
on complex psychomotor performance.
AD- 708 114

Human Performance as a Function of Direction and Frequency of Whole-Body Vibration.*

*VISION

JUDGMENTS OF VISUAL VELOCITY AS A FUNCTION OF LENGTH OF OBSERVATION TIME* AD- 109 229

PROPRIOCEPTION
Reprint: Persistence of ocular rotation following compensation for displaced vision.
AD- 640 795

Investigation of machine-assists to operator performance: Signal detection and task complexity.

AD- 605 713 *VISUAL SIGNALS MONITORS

ZOMOS

D-9 UNCLASSIFIED

TITLE INDEX

SAMPLE PERFORMANCE TESTS FOR SUBMARINE ENLISTED PERSONNEL AD- 143 493 THE AMOUNT OF INFORMATION PRESENTED
AS A PARAMETER OF TRACKING
PERFORMANCE CREW INTERACTION DURING A THIRTY-DAY SIMULATED SPACE FLIGHT. PRELIMINARY STUDY

Automated System to Assess Pilot Performance in a Link GAT-1

ND- 262 581

9 PSYCHOMOTOR TASK AS A MONITOR SUBJECT SAFETY AD- 297 748 DETERMINATION OF TEST
INSTRUMENTATION REQUIREMENTS
BIOLOGICAL AIRBORNE AND
ASTRONAUTICAL TESTS. THE

BUTTON-PRESSING FOR A TIME-OFF REWARD DURING SENSORY DEPRIVATION: IV. RELATION TO CHANGE IN RATINGS

OF WELL-BEING.

AD- 450 894

Nviator Selection 1919-1977

AD-A004 780 rainer.

AD-A048 105

The Development and Statistical Evaluation of a Recruit Training Performance Test. AD- 760 307

SHARED, PERCEPTUAL-MOTOR SKILLS TASK FOR USE IN STUDIES OF ISOLATION AND CONFINEMENT. DEVELOPMENT OF A COMPLEX, TIME-AD- 637 817

COMBINED ENVIRONMENTAL STRESSES AND

MANUAL DEXTERITY AD- 089 327

COEFFICIENT ALPHA AND THE RELIABILITY OF COMPOSITE

MEASUREMENTS.

AD- 633 840

THE DEVELOPMENT OF A STATIC TARGET APPARATUS AND TASKS FOR THE STUDY OF CONTROL AND RETICLE CHARACTERISTICS AD- 062 101

COMPARATIVE EFFECTS OF PROLONGED ROTATION AT 10 RPM ON POSTURAL EQUILIBRIUM IN VESTIBULAR NORMAL AND VESTIBULAR DEFECTIVE HUMAN SUBJECTS.

Psychomotor/Perceptual Test Development of an Enlisted AD-A020 544 Battery.

=

Comparison of Adaptive and Nonadaptive Training Strategies the Acquisition of a Physically

Complex Psychomotor Skill

AD-A018 880

Computerized Ability Testing, 1972-

AD-A024 516

CONTINUING MEMORY SPAN FOR DIGITS.

AD- 442 264

CORRELATION STUDY OF NAVY COMPETITIVE EXAMINATIONS FOR ADVANCEMENT IN RATING AND JOB

The Development of Equipment for Psychomotor Assessment AD- 732 210 DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: I. THE MODIFIED MASHBURN APPARATUS.

DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR

PERFORMANCE: II. THE MODIFIED TWO-HAND COORDINATOR. AD- 639 361

DEVICES FOR STUDYING ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: IV. THE TURRET PURSUIT APPARATUS.

AD- 639 305

DEVICES FOR STUDYING INTERFERENCE IN PSYCHOMOTOR PERFORMANCE: III. THE DOUBLE-DISK PURSUIT APPARATUS. AD- 639 304

Drugs and Placebos: Drug Guessing by Normal Volunteers, AD- 774 131

DYNAMICS OF SOCIAL INFLUENCE AD- 293 247

Military Officers While Under Heat The Effect of Breathing 100 Percent Oxygen on Short-Term Memory of AD-A018 321

THE EFFECT OF TARGET FREQUENCY PURSUIT TRACKING AD- 125 587

THE EFFECT OF TREADMILL GRADE O
PERFORMANCE DECREMENT USING
TITRATION SCHEDULE
AD- 275 974

THE EFFECTS OF ALTERNATING PRACTICE ON THE PERFORMANCE OF TWO ANTAGONISTIC MOTOR TASKS. AD- 643 411

Carrying Equipment on Psychomotor The Effects of Body Armor and Load-Performance. AD-A014 978 THE EFFECTS OF CONTINUITY IN DISPLAY AND CONTROL MOVEMENT RELATIONSHIPS ON TWOHAND TRACKING

AD- 119 859

Attention upon Required Kinesthetic and Proprioceptive Discrimination, AD-A022 124

EFFECTS OF IMMOBILIZATION: BEHAVIOURAL AND EEG CHANGES,

AD- 644 481

EFFECTS OF IONIZED AIR ON DECISION MAKING AND VIGILANCE PERFORMANCE AD- 283 460

The Effects of Layers of Cold Weather Clothing and Type of Liner on the Psychomotor Performance of Men. AD-A043 835

The Effects of Learning Through Replications of a Simple Serial Task. AD- 787 446 THE EFFECTS OF LEVEL OF LEARNING AND OF OVERLEARNING ON PROACTIVE AND RETROACTIVE FACILITATION AND INTERFERENCE. AD- 643 413

EFFECTS OF STIMULUS SIMILARITY AND DELAY ON TRANSFER OF TRAINING, AD- 415 728

THE EFFECTS OF VARYING DEGREES OF KNOWLEDGE OF RESULTS OF KNOB SETTING PERFORMANCE AD- 109 352

EFFECTS OF VIBRATION ON COMPLEX PSYCHOMOTOR PERFORMANCE, AD- 708 114

EFFECTS OF VISUAL DISPLAY MODE ON SIX HOURS OF VISUAL MONITORING AD- 604 466

THE EVALUATION OF DIFFICULTY OF TASK UNDER SEVERAL DIFFERENT

CONDITIONS OF PERFORMANCE OF THE MODIFIED MASHBURN APPARATUS.

AD- 639 293

THE EVOLUTION OF PERCEPTUAL FRAMES OF REFERENCE. AD- 414 993 FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED MASHBURN APPARATUS: II. THE EFFECTS OF VARYING THE AMOUNT OF INTERPOLATED LEARNING. FACTORIAL ANALYSIS OF PRECISION, STEADINESS AND EQUILIBRIUM IN FINE MOTOR SKILLS. AD- 603 763

A FIELD STUDY OF A VIGILANCE TASK, AD- 806 432

FUNCTIONAL FIXEDNESS AS RELATED TO PROBLEM SOLVING: A REPETITION OF THREE EXPERIMENTS

GGALS AND INTENTIONS AS
DETERMINANTS OF PERFORMANCE LEVEL,
TASK CHOICE AND ATTITUDES.
AD- 646 392

Human Amino Acid Excretion Patterns during and Following Prolonged Multistressor Tests, AD-A008 227

Human Performance and Biorhythms AD-A017 537 HUMAN PERFORMANCE AS A FUNCTION OF CHANGES IN ACOUSTIC NOISE LEVELS. AD- 628 198 Human Performance as a Function of Direction and Frequency of Whole-Body Vibration.

AD- 719 745

HUMAN REACTIONS TO AIR IONS. PART

III: THE EFFECT OF ATMOSPHERIC IONS ON HUMAN PERFORMANCE-A FURTHER EXPERIMENT AD- 293 170

Individual Differences in Motor and Verbal Skills. AD- 720 848

INTELLIGENCE AND THE ABILITY T LEARN. AD- 602 354 Intelligence Profile in the Prediction of Psychomotor Skills, Perseverance, and Leadership, AD-714 534

Investigation and Evaluation of a Zero Input Tracking Analyzer (ZITA).
AD-A025 431

AN INVESTIGATION OF INDIVIDUAL SUSCEPTIBILITY TO INTERFERENCE. AD- 643 414

INVESTIGATION OF MACHINE-ASSISTS TO OPERATOR PERFORMANCE: SIGNAL DETECTION AND TASK COMPLEXITY.

AD- 605 713

An Investigation of Some Effects of Physical Fitness on Performance. AD- 733 228

THE JUDGMENT OF ANGULAR POSITIONS
IN THE HORIZONTAL PLANE ON THE
BASIS OF KINESTHETIC CUES
AD- 081 714

JUDGMENTS OF VISUAL VELOCITY AS A FUNCTION OF LENGTH OF OBSERVATION TIME
AD- 109 229

Laboratory Assessment of Pilot Performance Using Nonrated Subjects at Three Alcohol Dose Levels. AD-A007 727

UNCLASSIFIED

ZOMOZ

THE LEARNING OF PSYCHOMOTOR SKILLS.

PREDICTING FOUR-HOUR LEVELS F PSYCHOMOTOR PERFORMANCE FROM THE NITIAL HALF HOUR. ND- 660 103

Multiple Display Monitoring. Tracking While Monitoring. AD- 726 146 NEPTUNE: Modifications and Current Applications. AD-A016 722

NEW QUANTITATIVE ATAXIA TEST BATTERY, AD- 617 753 NUMBER OF ALTERNATIVES AND SEQUENCE LENGTH IN ACQUISITION OF A STEP-FUNCTION TRACKING TASK, AD- 629 856

Operation on the Move: Feasibility Study. PERCEPTUAL-MOTOR PERFORMANCE RELATED TO IMPULSIVENESS AND ANXIETY. AD- 663 697 PERCEPTUAL-PSYCHOMOTOR TESTS IN AIRCREW SELECTIONS: HISTORICAL REVIEW AND ADVANCED CONCEPTS. AD- 636 606 PERFORMANCE DECREMENT AS A FUNCTION OF SEVEN DAYS OF BEDREST. AD- 713 070

Performance Measurement AD-A029 850 PERFORMANCE UPON SUDDEN AWAKENING

PERSISTENCE OF OCULAR ROTATION FOLLOWING COMPENSATION FOR

PERSONALITY DIFFERENCES BETWEEN EXTREME PERFORMERS DURING A FOURTH DISCUSSION SESSION.

AD- 637 823 DISPLACED VISION AD- 640 795

Physiologic Testing of the T-43 Passenger Oxygen Mask. AD- 783 237

Requirements Using Attribute Data Based upon the Position Analysis Questionnaire (PAQ). The Prediction of Job Ability AD-A035 623

THE PREDICTION OF PERCEPTUAL-MOTOR LEARNING FROM INDEPENDENT VERBAL AND MOTOR MEASURES. AD- 635 865 A PRELIMINARY EVALUATION OF A SHORT PSYCHOMOTOR TEST. AD- 651 809

PRELIMINARY INVESTIGATION FOR DEVELOPMENT OF AN ELECTRONIC PSYCHOMOTOR SKILL TESTER OF V/STOL AD- 684 304 PILOTS.

THE PROBLEM OF CONTROLLING LEVEL OF LEARNING IN STUDIES OF ASSOCIATIVE INTERFERENCE IN PSYCHOMOTOR PERFORMANCE. AD- 639 294 Proceedings of the Conference on Computerized Adaptive Testing (1st) Washington, D. C., June 12 and 13, AD-A024 734

BREATHING VARYING PARTIAL PRESSURES OF OXYGEN-NITROGEN PSYCHOMOTOR FUNCTIONING WHILE

Quarterly Bulletin of

of Mechanical Engineering and thational Aeronautical Establishment, Ottawa, 1 April 30 June, 1976.

THE RELATIONSHIP BETWEEN LISTENER ACCURACY AND CONCURRENT PSYCHOMOTOR RAIL TEST TO EVALUATE EQUILIBRIUM IN LOW-LEVEL WIDEBAND NOISE, AD- 643 315

THE RELATIONSHIP OF ANXIETY AND IMPULSIVENESS FACTORS AMONG HIGH SCHOOL MALES, AD- 664 102

AD- 109 245

ACTIVITY

RESEARCH ON COMPLEX PERCEPTUAL SKILLS. AD- 637 260 MOTOR

THE RESPONSE ANALYSIS TESTER (RATER) AND LOGICAL INFERENCE TESTER (LOGIT): I. SOME PRELIMINARY FINDINGS. AD- 650 182 RETROACTIVE FACILITATION AND INTERFERENCE IN PERFORMANCE ON THE MODIFIED TWO-HAND COORDINATOR. AD- 639 362

MULTIPLE-TRIALS-PER-TASK IN THE ACQUISITION OF SKILL IN PERFORMING SEVERAL SIMILAR TASKS. SINGLE-TRIAL-PER-TASK VERSUS

INDIVIDUAL DIFFERENCES IN THE PERFORMANCE OF ROUTINE, REPETITIVE SPECTRAL ANALYSIS AND THE STUDY OF AD- 006 236

STUDY OF WARMUP DECREMENT IN PURSUIT ROTOR PERFORMANCE. AD- 643 410

-

- Three Explanations of Temporal Changes in Ability-Skill Relationships: Literature Review and Theoretical Analysis.
- TRANSFER OF TRAINING FROM PRACTICE ON COMPONENTS IN A MOTOR SKILL, AD- 641 581
- TRANSFER OF TRAINING IN A SIMPLE MOTOR SKILL ALONG THE SPEED DIMENSION AD- 032 537
- TRANSFER OF TRAINING TO A MOTOR SKILL AS A FUNCTION OF VARIATION IN RATE OF RESPONSE. AD- 64: 586
- TRANSFER OF TRAINING TO A MOTOR TASK IN RELATION TO STIMULUS SIMILARITY.
- USE OF AN ENGINEERING ANDLOGY IN THE DEVELOPMENT OF TESTS TO PREDICT TRACKING PERFORMANCE, AD- 602 861
- USE OF THE EXPERIMENTAL METHOD FOR EVALUATIONS OF PERFORMANCE IN MULTI-MAN SYSTEMS.
- The Use of Worker Characteristics in Marine Corps Classification and Assignment. AD-A044 854
- Uses of Computer-Assisted Instruction in Developing Psychomotor Skills Related to Heavy Machine Operation.
- Validation of a Psychomotor/Perceptual Test Battery.
 AD-A044 525

Validation of Two Aircrew Psychomotor Tests. AD- 777 830

T-4 UNCLASSIFIED